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NAVAL POSTGRADUATE SCHOOL

Monterey, California



THESIS

NAVAL FACILITIES CONDITION: THE ANNUAL INSPECTION SUMMARY REPORT AND THE SHORE BASE READINESS REPORT

by

James Allen Jones

December 1986

Thesis Advisor:

Shu Liao

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19. ABSTRACT (Continued)

The study concludes that the facilities deficiencies reported in the Annual Inspection Summary do not support the readiness ratings on facility condition reported in the Shore Base Readiness Report.

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Naval Facilities Condition: The Annual Inspection Summary Report and The Shore Base Readiness Report

bу

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ABSTRACT

This thesis examines the consistency of information contained in the Annual Inspection Summary Report and the Shore Base Readiness Report. The objective is to determine if the facilities deficiencies reported in the Annual Inspection Summary support the readiness ratings on facility condition reported in the Shore Base Readiness Report. The mean percentage deferrable, nondeferrable, and total facilities deficiencies per current plant value of a mission category is calculated and analyzed by analysis of variance tests to determine if there is a significant difference in the mean percentage deficiencies per current plant value among different readiness ratings. The analysis indicates there is no significant difference of the mean percentage deficiencies per current plant value.

The study concludes that the facilities deficiencies reported in the Annual Inspection Summary do not support the readiness ratings on facility condition reported in the Shore Base Readiness Report.

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I. INTRODUCTION

This thesis is a comparative study intended to determine the correlation between the Annual Inspection Summary (AIS) and that portion of the Shore Base Readiness Report (BASEREP) that assesses facilities condition readiness. The AIS addresses facilities maintenance and repair deficiencies, and the BASEREP addresses asset and mission readiness. Among other things, the BASEREP assigns a readiness rating to facilities condition. Since the AIS and the BASEREP address facilities, a strong correlation between the two reports will lend further credibility to the resources requested for facilities maintenance and repair.

A. BACKGROUND

Facilities condition has been of special interest to the Navy for many years. The Chief of Naval Operations has a particular concern with the maintenance and repair of Naval facilities for the following reasons: [Ref. 1]

- The Navy's capability to perform its mission is related to the condition of its facilities.
- Deferral of facilities maintenance and repair is an attractive short term alternative to resource deficiencies; however, it results in cumulative deterioration and increased cost in out-years.
- 3. Application of resources to facilities maintenance and repair is a determinant of shore facility appearance, and is related to the smartness and pride associated with an efficient Navy.

Because of resource constraints, the Navy has a continuous backlog of facilities maintenance and repair deficiencies at the activity level. These deficiencies are documented annually in the AIS by Public Works personnel. The AIS lists material deficiencies (in dollars) that require corrective action. Such action is necessary to protect the Navy's investment and maintain the facilities in a condition for the activity to properly perform its mission. The AIS is used to measure and justify the resources required to maintain the facilities in such a state. While the AIS documents facilities deficiencies, it does not assess the mission readiness condition of an activity's facilities.

Another report that assesses facilities condition is the BASEREP. The BASEREP is a mission oriented system for assessing shore base readiness. It is structured along two dimensions, assets and missions. A readiness rating for each asset is assigned to any of the twenty-three mission categories that is relevant to an activity. Of the three asset categories in the BASEREP (personnel, facilities, and major equipment), only the facilities asset is of interest to this study. The BASEREP provides the Navy with an analytical tool to measure and justify the resources required to meet operating objectives. [Ref. 2]

B. OBJECTIVE AND SCOPE

This thesis is an examination of the AIS and BASEREP to determine whether or not there is a correlation between the two. In particular, a determination is made of whether or not the AIS supports the BASEREP ratings on facilities condition. Since both reports are used to justify needed resources, a strong correlation between the two would lend further credibility to the resources requested and justified by the individual reports.

The scope of this research is limited to the AIS and BASEREP for selected Naval activities located in California.

This limitation is due to time and geographical factors.

Fiscal years 1983 through 1985 reports are examined to the extent of the availability of those reports.

C. RESEARCH QUESTION

The specific research question of this study is:

Does the facilities deficiencies reported in the AIS support the facilities condition readiness ratings reported in the BASEREP?

D. RESEARCH METHODOLOGY

The background information on the AIS and BASEREP was collected through literature review, telephone interviews and previous experience in Public Works organizations. The research data was collected from Naval activities in California and The Naval Facilities Engineering Command

(NAVFAC). (See Chapter III for details of the data collection process and the activities involved).

The following three percentages were determined for each mission category:

- 1. % Deferrable Deficiency per Current Plant Value (CPV)
- 2. % Nondeferrable Deficiency per Current Plant Value
- 3. % Total Deficiency per Current Plant Value The mean value of each activity's percentages of deficiencies was calculated for each facilities condition readiness rating. A statistical analysis is performed on this data. The mean percentage deficiencies per cpv was used as a surrogate for the mean AIS deficiencies. The null hypothesis is that the mean value of the percentage facilities deficiencies per CPV for each facilities condition readiness rating is equal. An Analysis of Variance (ANOVA) test was performed for each activity's data and for the entire data set as a whole to either prove or disprove this hypothesis. If the ANOVA test proves the hypothesis correct, it can be inferred that the deficiencies reported in the AIS do not support the facilities condition readiness rating of the BASEREP.

E. DEFINITIONS AND EXPLANATIONS OF KEY TERMS

The following definitions and key terms are provided to familiarize the reader with the terminology that is used in this thesis:

- Asset Specific Ratings Readiness rating from 1 through 4 that rates an asset in terms of its ability to meet the demands of a mission category. [Ref. 3]
- 2. AIS Annual Inspection Summary Report
- 3. BASEREP Shore Base Readiness Report
- 4. Category Code (Cat Code) A numeric code used to identify a particular type of Navy or Marine Corps Class II real property (i.e., Building, Structure, Utility). [Ref. 4]
- 5. Cost Account (CA) The accounting designation as found in the Navy Comptroller Manual (NAVSO P-1000) Volume 2, Chapter 4 for the Real Property Maintenance Activity program used to identify actions for which funds are used. [Ref. 4]
- 6. Current Plant Value (CPV) The hypothetical cost (in thousands of dollars) of replacing an existing Class 2 facility with an identical facility, constructed under identical circumstances in the same location but at current labor, material, and equipment cost rates. It is derived by applying a multiplier to the acquisition and improvement cost of owned facilities based on the year built or improved and type of construction.
- 7. Deficiency Code 1 (DC 1) Those maintenance and repair actions which have an estimated dollar value within the funding authority of the station's commanding officer. [Ref. 4]
- 8. Deficiency Code 2 (DC 2) Those maintenance and repair actions which have an estimated dollar value exceeding the funding authority of the commanding officer. [Ref. 4]
- 9. Deficiency Type (DT) Code for the identification of each deficiency as deferrable or nondeferrable. (D deferrable; N nondeferrable)
- 10. Fund Source (FS) That appropriation, or special interest area of an appropriation, from which funds are needed to correct a facility deficiency. [Ref. 4]
- 11. Investment Category (IC) A code number that identifies type-related facilities within the schedule of Facilities Category Codes (Cat Codes), as found in NAVFAC P72. Cat Codes classify Navy real property into descriptive breakdowns; IC numbers regroup these

- Cat Code classifications by type of investment requirement, (i.e., into groupings of related facilities). [Ref. 4]
- 12. Maintenance The recurring day-to-day, periodic, or scheduled work (not attributable to Preventive Maintenance Inspections) required to preserve a real property facility to such a condition that it may be effectively utilized for its designated purpose. [Ref. 4]
- 13. Repair The restoration of a real property facility to such a condition that it may be effectively utilized for its designated purposes by overhaul, reprocessing, or replacement of constituent parts or materials that have deteriorated by action of the elements or usage and have not been corrected through maintenance. [Ref. 4]
- 14. NAVFAC Publication 164 (P-164) The P-164 is a detailed inventory of Naval Shore facilities published for each Naval Activity by the Naval Facilities Engineering Command yearly. The summary of the P-164 summarizes facilities inventory data by Category Code. Among other things this summary contains the CPV of facilities by Category Code.
- 15. NAVFAC Publication 72 (P-72) establishes the Category Codes, Nomenclature, Facility Type, and required units of measure for identifying, classifying, and quantifying Navy Facilities' requirements and assets. The Facilities Category Codes, Investment Categories and Maintenance Cost Account relationships are contained in the P-72. [Ref. 5]

F. THESIS ORGANIZATION

Chapter II describes the AIS and the BASEREP to familiarize the reader with them. Chapter III discusses the data collection and methodology for analyzing the compatibility of the reports. Chapter IV presents the results of data analysis and interpretation. The summary and conclusions are presented in Chapter V.

II. FACILITY DEFICIENCY REPORTS DESCRIPTION

This chapter provides a description of the AIS and the BASEREP to familiarize the reader with the two reports.

A. ANNUAL INSPECTION SUMMARY REPORT (AIS)

The AIS is a report used by major claimants to address unfunded facilities deficiencies to higher authorities. It is a summary report of uncorrected facilities deficiencies that have been identified through inspections. The report is a monetary representation of known deterioration that requires corrective action to protect the Navy's investment.

The AIS is composed of three sections: the Narrative ...
Assessment, the Cost Account Summary, and the Maintenance and Repair of Real Property Deficiency List. Excerpts of a typical AIS is included as Appendix A.

The AIS Narrative Assessment is a summarization by investment category of the condition of the facilities and the mission impact of that condition. The Narrative Assessment provides current and previous year information.

The AIS Cost Account Summary summarizes the facilities deficiencies by cost account for ease of budget formulations. The Cost Account Summary provides the deficiencies by fund source, deficiency type, investment category, and deficiency code.

The AIS Maintenance and Repair Deficiency List is a chronological listing of facilities deficiencies that have been identified during the current year. The deficiencies are categorized by category code, cost account, funding source, deficiency code, and deferrability type, An estimate of the dollar value required to correct the deficiencies is also provided. The data provided in the Narrative Assessment, the Cost Account Summary and the Deficiency List should reconcile.

B. SHORE BASE READINESS REPORT (BASEREP)

The BASEREP assesses the readiness of the Navy Shore Activities in the area of base operating support and training. The report (which is used by major claimants, resource sponsors, and program managers to assess mission readiness) is structured along two dimensions: mission categories and asset categories.

There are twenty-three mission categories that represent a cross-section of the shore base missions (see Appendix B). These mission categories will be discussed in greater detail in Chapter III.

The asset categories are personnel, facilities, and major equipment. Since the intention of this thesis is to determine the correlation between the AIS facilities deficiencies and the facilities condition readiness ratings

of the BASEREP, only the facilities asset category of the BASEREP is of concern.

The BASEREP provides readiness ratings (called asset specific ratings) for assets in each mission category relevant to an activity. Each asset is rated in terms of its ability to meet the demands of the mission category. The readiness ratings are represented from Numeral 1 through 4 (see Appendix C). A typical BASEREP is provided in Appendix D.

The facilities condition readiness rating of the BASEREP is the asset rating with which this thesis is concerned. The facilities condition readiness rating should reflects the physical state of the building and structure. It should be supported by deficiencies in the AIS, but does not imply a specific dollar amount of deficiencies. [Ref. 6]

C. SUMMARY

This chapter described the two reports to be examined in this study. The AIS is a summary report of monetary representations of known facilities deficiencies which exist and need corrective action to protect the Navy's facilities investment. The BASEREP is a report that assesses mission readiness of three specific assets in twenty-three mission categories. An readiness rating of 1 through 4 is assigned to assets in each of the mission categories which is relevant to an activity.

III. DATA COLLECTION AND RESTRUCTURING

In this chapter, the data collection process and the method of obtaining compatibility of the two reports are described. Since the AIS is structured along facilities deficiencies and the BASEREP is structured along mission categories, it was necessary to ensure that the data collected were structured along the same category for comparison (i.e., either facilities deficiencies or mission categories). The researcher chose to structure the data by BASEREP mission category for convenience. Therefore, only the AIS data needed to be restructured.

A. DATA COLLECTION

Seventeen Naval activities in California were selected as potential subjects, representing approximately 11.3% of the participants that are designated base operating support shore (BOS) activities and are required to submit BASEREPS [Ref. 7]. Appendix E contains a list of the seventeen activities. Each of the activities was requested to provide copies of their AIS for fiscal years (FY) 1982 through 1985 and a copy of their current P-164 summary, yielding a total possible 68 AIS reports. The Naval Facilities Engineering Command, Facilities Management Division provided copies of the BASEREP and P-164 summaries

for the same activities for FYs 1983 through 1985 and FYs 1982 through 1985, respectively. Of the 68 AIS's requested, 21 usable AIS's were received.

B. DATA STRUCTURE

Since the BASEREP structuring was by mission, no restructuring of the data was necessary.

The AIS data is summarized by investment code and cost account, and is presented by chronological deficiency. (The reader should refer to the sample AIS in Appendix A for familiarization). Each BASEREP mission is composed of a specific set of category codes [Ref. 8]. In order to make the BASEREP and AIS reports compatible, it was necessary to relate the AIS to mission category by category code.

The investment categories of the AIS are also composed of a specific set of category codes, and in some cases match identically with the set that relates to mission category of the BASEREP. For instance, the BASEREP mission category, Port Operations, is composed of the same category codes as the AIS investment category 03. Therefore, the facilities deficiencies in investment category 03 of the AIS represent the same category codes as the BASEREP mission Port Operations. However, there were BASEREP missions that did not match the AIS investment category. In these cases, the researcher grouped the specific AIS facilities deficiencies by the category code from the deficiency list. Appendix F

contains the relationship between the BASEREP missions, facilities category codes and the investment category. This relationship was used to structure the AIS facility deficiencies by BASEREP missions. The same structuring was used to determine the CPV of the BASEREP mission.

C. SUMMARY

This chapter described the data collection methods and the data restructuring process. The research data base for this study is obtained from 17 Naval activities in California, representing 11.3% of the designated BOS activities. Of the 68 AIS's requested, 21 usable sets were received. The commonality between the AIS deficiencies and BASEREP missions is the facility category code. In some cases the BASEREP missions and the AIS investment category contained the same set of category codes. In others, however, the facilities deficiencies were grouped by the category code from the deficiency list. The AIS deficiencies and the P-164 CPV had to be restructured along mission operations.

IV. DATA PRESENTATION AND ANALYSIS

This chapter presents the results of the data analysis and its interpretation. Analysis of Variance (ANOVA) tests were performed on the data and the results of the test are provided. An example ANOVA test is included for the reader to observe the test.

A. DATA

The initial data collection is described in Chapter III along with the data restructuring process. The data was collected from two reports: The AIS and the BASEREP. It was restructured along mission categories to enable analysis of the data. A sample of the restructured data is provided in Table 1. The rows of Table 1 are the mission categories from the BASEREP. The columns are described below:

- 1. RED RAT The facility condition readiness rating that are reported in the BASEREP. The blank lines represent mission categories that had no reported readiness rating. This column will be included in the analysis as a readiness rating of NONE.
- 2. DEFER The deferrable deficiencies for each mission category as reported in the AIS.
- NDEFER The nondeferrable deficiencies for each mission category as reported in the AIS.
- 4. TOT DEF The total deficiencies (Deferrable and Nondeferrable) as reported in the AIS.
- 5. CPV (\$000) The CPV in thousand dollars. The CPV was derived for the mission categories from the P-164 summary. A CPV of zero causes the percent

TABLE 1. RESTRUCTURED DATA SAMPLE

	RED RAT		NDEFER (000)		CPV (000)		NDEF 7	TDEF /CPV
AVIATION		258	664	 922	135111	0.19	0.49	0.68
FLT COMS	1	118	4	122	I			
PORT OPS	3	96	108	204	92338	0.10	0.12	0.22
SPEC OPS	1	23	5	28	4444	0.52	0.11	0.63
TRAINING	2	574	15	589	31155	1.84	0.05	1.89
ACFT MNT	2	3056	142	3198	266948	1.14	0.05	1.20
SHIF MNT	2	33	16	49	488	6.76	3.28	10.04
ELEX/LOG	2	10	0	10	2587	0.39	0.00	0.39
RDTE		94	16	110	23916	0.39	0.07	0.46
POL SVCS	1	25	25	50	25358	0.10	0.10	0.20
WEAPON SYS SVCS	1	285	7	292	18170	1.57	0.04	1.61
MED/DEN		70	14	84	5577	1.26	0.25	1.51
UPH/MESS	2	873	308	1181	66931	1.30	0.46	1.76
PERS SVC	2	1264	138	1402	I			
FAM HSE		NOT	LISTE) AIS				
UTILITY		30	281	311	6732	0.45	4.17	4.62
ADMIN	2	1445	353	1798	I			
PUB WRKS	2	1360	122	1482	42694	3.19	0.29	3.47
SECURITY	2	376	9	385	I			
FIRE PRO	T 2	7	0	7	I			
BASE TRN		1365	2906	4271	106024	1.29	2.74	4.03
BASECOMS	2	34	19	53	I			
SUP SVCS	2	3367	384	3751	61965	5.43	0.62	6.05

- deficiencies/CPV to be indeterminate. This condition is further indicated by ERR in the last three columns.
- 6. %DEF/CPV The percentage of deferrable deficiencies per CPV for each mission category.
- 7. %NDEF/CPV The percentage of nondeferrable deficiencies per CPV for each mission category.
- 8. %TDEF/CPV The percentage of total deficiencies per CPV for each mission category.

Appendix 6 contains complete set of data restructured along the mission category that was included in the analysis. This data is not yet in the form for analysis and is subject to some interpretations as discussed below.

The data presented in Table 1 and Appendix G reveal some mission categories that will be excluded from the analysis for these reasons:

- 1. The author was unable to determine the CPV for six mission categories (Fleet Communications, Personnel Services, Administration, Security, Fire Protection and Base communications) due to insufficient data. These mission categories are made up of sub-category codes, but the P-164 Summary contains the CPV by facility category code and not sub-category code. The CPV for sub-category codes was not available to the researcher. These categories are marked by "I" in the CPV column.
- 2. All mission categories that have zero CPV will be excluded. A zero current plant value yields indeterminate percentage deficiencies/CPV. Also, family Housing deficiencies are not listed in the AIS; therefore, the percentage deficiencies/CPV cannot be calculated.

Table 2 shows the results of omitting the unusable data elements for one sample. Appendix H contains all the data with the excluded categories, and was the data base for performing the ANOVA test.

TABLE 2. ANOVA TEST DATA BASE SAMPLE

RED RAT		NDEFER (000)	TOTDEF (000)	CPV (000)	%DEF /CPV	%NDEF /CPV	%TDEF /CPV
SUP SVCS 1				747	0.00	0.00	0.00
PUB WRKS 1	600	2	602	6547	9.16	0.03	9.20
BASE TRN 1	0	114	114	13277	0.00	0.86	0.86
UTILITIES 2	601	3191	3972	26361	2.28	12.11	15.07
TRAINING 2	1779	1034	2813	65543	2.71	1.58	4.29
UPH/MESS 3/1	1250	24	1274	10463	11.95	0.23	12.18
POL SVCS	0	0	0	29	0.00	0.00	0.00
RDTE	O	0	0	219	0.00	0.00	0.00
ELEX/LOG	0	0	0	357	0.00	0.00	0.00
AVIATION	0	0	0	2369	0.00	0.00	0.00
SPECIAL	0	5	5	7822	0.00	0.06	0.06

The data tested had five readiness ratings: 1, 2, 3, Other, and None. Readiness ratings 1, 2, and 3 are considered valid readiness ratings because they are identified and defined in the BASEREP. The valid rating definitions are provided in Appendix C. The researcher has defined two other readiness ratings that will be included in the test:

- 1. Other Readiness ratings assigned by activities other than the 1, 2, 3, and 4 ratings identified by the BASEREP.
- None Unassigned readiness rating for mission categories that have a CPV. This category is used when activities did not assign a readiness rating,

although there is a CFV for that mission category indicating that there are facilities assigned for that mission.

B. DATA ANALYSIS

The data contained in Appendix H was analyzed by the (ANOVA) test to determine if the mean percentages are different among the different readiness ratings. Two ANOVA test were performed, one using all the ratings (1, 2, 3, 0ther and None) and another using only the valid ratings (1, 2, and 3). The reason for performing these two test was to determine if the readiness ratings as defined by the researcher (Other and None) have an impact on the test results. These two tests were performed for each individual sample and all samples combined for these categories: (1) percentage deferrable deficiency per CPV, (2) percentage nondeferrable deficiency per CPV, and (3) percentage total deficiency per CPV.

1. An Illustrative Example

The following example is provided to illustrate the Anova test:

a. ANOVA Test for the Equality of L Group Means

Null Hypothesis (Ho): All means are equal.

Alternate Hypothesis (Ha): Not all means are equal.

Test Statistic (F) = MS (Between) / MS (Within).

Rejection Region: Reject the null hypothesis if the test statistic F is greater than F (a=.05, DF1=L, DF2=N-L).

a = .05 is the maximum tolerable risk of rejecting Ho if it is true.

DF1 = Degrees of Freedom in the numerator.

DF2 = Degrees of Freedom in the denominator.

The data in Table 3 are the percentage deferrable deficiencies per CPV (%DEF/CPV) for four readiness ratings for an activity. An ANOVA test was performed to test the hypothesis that the mean value of %DEF/CPV for each of the readiness ratings are equal.

TABLE 3. EXAMPLE DATA TABLE

RED RAT		% DEFI			GROUP MEAN	GROUP SIZE
1	0.00	1.09			.55	2
2	0.00	1.14	13.25	1.29	3.92	4
ত	0.00	6.31			3.16	2
NONE		0.00			0.00	1

Sample Mean = 2.56 # of Groups (L) = 4

DF1 = L-1 = 4-1 = 3 Total Sample Size (N) = 9

DF2 = N-L = 9-4=5 F Statistic = .275

Critical value for F (.05, 3, 5) = 5.41 [Ref. 10] Ho: All group means are equal.

Rejection Region: Reject Ho if F is greater than 5.41

Conclusion: F = .275 is not greater than 5.41 therefore conclude that the mean values of the %DEF/CPV for each readiness rating are not significantly different.

C. TEST RESULTS

Table 4 presents the test results for the Percent Deferrable Deficiencies per CPV (%DEF/CPV). Eighty-six percent (18 out of 21) of the ANOVA tests performed for the individual samples indicates there is no significant difference between the mean %DEF/CPV when all five of the ratings were included in the test. For these eighteen tests the probability that the means are equal ranged from 27% to The remaining three test indicated there is a significant difference in the mean %DEF/CPV. Each of these three tests had a very low P-value (less than .04). Two of the three tests had a very high readiness rating in the Other category, relative to the 1,2,3 and None ratings. The third test had a very low mean in the None category relative to the 1, 2, 3, and Other category. Mathematically these means can be categorized as outlyers rendering the sample invalid.

One hundred percent of the tests performed using only the three valid readiness ratings (1,2,3) indicates that there is no significant difference in the mean values with P-values ranging from .32 to .90. The test results for the

TABLE 4. ANOVA TEST RESULTS OF % DEF/CPV

							TEST RE		
		h4F 0		C / O D L L		E.E. 0	OF INCL		
			N % DE		NONE		DINESS		
DAMELE	1	2	3	OTHER	NONE		LL		_ID
SAMPLE						Y P	I PVAL	A 14	PVAL
NO.	7 05	0 50	МА	44 05	0.00	V	C C 1	V	A 00
1	3.05	2.50	NA	11.95	0.00		0.04	X	0.90
2 3	0.55	3.92	3.16	NA	0.00	Х	0.84	X	0.77
	0.00	0.11	NA	10.65	0.16		10E-6	Χ	0.67
4	1.84	NA	NA	NA	0.00	X	0.31		
5	NA	0.32	0.00	NA	13.07	X	0.85	X	0.59
6	NA	1.81	NA	NA	1.95	X	0.93		
7	NA	3.88	NA	NA	3.49	X	0.94		
8	NA	5.16	NA	NA	3.15	X	0.61		
9	NA	0.92	0.41	NA	11.99	X	0.70	X	0.46
10	NA	40.10	3.09	NA	25.46	X	0.69	X	0.43
11	NA	10.30	5.36	NA	3.40	X	0.35	Χ	0.46
12	NA	4.19	2.53	NA	5.66	X	0.85	X	0.53
13	1.21	6.27	0.66	NA	2.10	X	0.46	X	0.63
14	NA	0.01	0.05	NA	0.04	X	0.75	X	0.32
15	NA	5.17	0.17	NA	1.03	X	0.34	X	0.35
16	NA	1.52	NA	NA	3.87	X	0.27		
17	0.73	2.53	0.10	NA	0.85	X	0.32	Х	0.36
18	2.59	11.20	3.94	NA	1.23	X	0.77	X	0.85
19	NA	3.65	4.34	NA	0.80		0.03	X	0.67
20	4.08	8.20	NA	NA	0.00	X	0.73	X	0.73
21	5.55	0.78	8.10	NA	2.40	X	0.33	x	0.80
						x		x	
COMBINED	2.29	6.61	2.64	11.30	4.32	X	0.69	Χ	0.46

- All Results of test with 1,2,3, OTHER, and NONE mean %DEF/CPV included.
- Valid Results of test with only 1,2, and 3 ratings mean %DEF/CPV included.
 - Y There is a significant difference in the mean %DEF/CPV between the ratings.
- N There is not a significant difference in the mean %DEF/CPV between the ratings.
- P Val Probability that the mean %DEF/CPV are not significantly different.

combined data using all five ratings and the three valid ratings also indicate that there is no significant difference in the means. These P-values are .69 and .46 respectively.

Table 5 contains the test results for the percentage of nondeferrable deficiencies per CPV (%NDEF/CPV). In individual samples, when all five readiness ratings were considered, ninety percent (19 out of 21) of the tests indicated there is no significant difference in the mean percentages. For these nineteen tests, the P-values ranged from .07 to .90. The remaining two tests indicated a significant difference in the mean %NDEF/CPV. The P-values for these two samples were .01 and .02. One of the samples had a high mean value in readiness rating category 3 relative to the other ratings and the other had a low mean value in the readiness rating None Category relative to the other four ratings. Because of these outlyers, the samples are determined to be invalid.

When only the three valid ratings were considered for individual samples, 100% of the cases indicated no significant difference in the mean %NDEF/CPV. These P-values range from .33 to .91. The test results for the combined data using all five ratings indicated that there is a significant difference. However, when only the three valid ratings are considered, the results indicate no significant difference in the mean percentages. The P-values

TABLE 5. ANOVA TEST RESULTS OF % NDEF/CPV

								TEST R			
		MEAN	% NDI	EF/CPV		Ri	ΞΑ	DINESS	R	AT:	INGS
	1	2	3	OTHER	NONE		Α	LL		VAL	_ID
SAMPLE NO.						Y	1	PVAL	Y	N	PVAL
1	0.30	6.85	NA	0.23	0.12		X	0.10		X	0.20
2 3	1.21	1.06	0.23	NA	0.00		X	0.79		X	0.73
3	0.02	2.18	NA	0.00	0.35		X	0.50		X	0.61
4	NA	2.64	NA	NA	.00		X	0.14			
5	NA	9.65	1.95	NA:	2.59		X	0.41		X	0.72
6	NA	1.85	NA	NA	0.99		X	0.62			
7	NA	3.72	NA	NA	0.95		X	0.09			
8	NA	3.16	NA	NA	1.61		X	0.39			
9	NA	0.82	2.83	NA	0.82		X	0.36		X	0.18
10	NA	6.32	1.83	NA	0.26		X	0.18		X	0.36
11	NA	5.56	0.55	NA	0.00		X	0.14		X	0.27
12	NA	0.19	2.75	NA	0.07	X		0.01		X	0.07
13	2.85	3.13	2.53	NA	5.77		X	0.96		X	0.99
14	NA	16.27	3.68	NA	1.77		Χ	0.07		X	0.36
15	NA	8.94	3.42	NA	2.44		X	0.22		X	0.33
16	NA	2.22	NA	NA	0.69		X	0.47			
17	0.83	0.66	0.12	NA	1.81		X	0.34		X	0.65
18	7.00	5.24	4.08	NA	8.66		X	0.85		X	0.94
19	NA	3.58	4.38	NA	0.02	X		0.02		X	0.69
20	9.63	1.86	NA	NA	0.00		X	0.07		X	0.06
21	0.00	0.93	2.91	NA	2.83		X	0.72		X	0.58
COMBINED	2.82	4.03	2.55	0.12	1.54	X		0.01		X	0.46

- All Results of test with 1,2,3, OTHER, and NONE Mean %NDEF/CPV included.
- Valid Results of test with only 1,2, and 3 ratings Mean %NDEF/CPV included.
 - Y There is a significant difference in the mean %NDEF/CPV between the ratings.
- N There is not a significant difference in the mean %NDEF/CPV between the ratings.
- P Val Probability that the mean %NDEF/CPV are not significantly different.

for the combined mean %NDEF/CPV was .01 and .46, when all five ratings and only the three valid ratings are considered respectively.

Table 6 contains the test results for the percentage total deficiencies per CPV (%TDEF/CPV). When all five of the ratings were considered and tested by individual sample, 18 out of 21 tests (86 percent) indicated no significant difference in the mean percentages. For these eighteen tests the P-values ranged from .18 to .96. The remaining three tests indicated a significant difference in the mean %TDEF/CPV with P-values of .05, .01, and 0.00. Two of the samples had a high mean value in the Other category relative to the 1, 2, 3, and None categories and one had a low mean value in the None category relative to the 1, 2, 3, and Other categories. Once again, the outlyers render the sample invalid.

When only the three valid ratings were considered, 16 out of 16 (100 percent) indicated that there is no significant difference in mean percentages. These P-values range from .33 to .91. The test results for the combined data indicated no significant differences in the mean percentage when all five of the ratings were considered and when only the three valid ratings were considered. These P-value for both tests is .33.

The same ANOVA tests were performed on mean percentage deficiencies of one of the mission categories with data

TABLE 6. ANOVA TEST RESULTS OF % TDEF/CPV

								TEST F	RESUL	.TS
								OF INC	CLUDE	ED .
		MEAN	V % TDE	EF/CPV		F	REA	DINES	RAT	INGS
	1	2	3	OTHER	NONE		۴	LL	VF	ALID
SAMPLE						Υ	Ν	PVAL	Y N	PVAL
NO.										
1	3.35	9,68	NA	12.18	0.01	X		0.05	X	0.33
2	1.76	4.98	3.34	NA	0.00		Χ	0.88	X	0.82
3	0.02	2.29	NA	10.65	0.51	Χ		0.01	X	0.61
4	NA	4.50	NA	NA	.00		X	0.18		
5	NA	9.97	1.95	NA	15.65		Χ	0.92	X	0.72
6	NA	3.65	NA	NA	2.95		Χ	0.80		
7	NA	7.61	NA	NA	4.44		X	0.58		
8	NA	8.32	NA	NA	4.75		Χ	0.42		
9	NA	1.74	3.25	NA	12.81		X	0.71	X	0.38
10	NA	46.43	4.93	NA	25.72		X	0.62	X	0.39
11	NA	15.86	5.90	NA	3.40		Χ	0.23	X	0.37
12	NA	4.38	5.27	NA	5.73		Χ	0.96	X	0.66
13	4.06	9.40	3.20	NA	7.88		Χ	0.97	X	0.77
14	NA	16.28	3.73	NA	1.80		Χ	0.06	X	0.36
15	NA	14.11	3.59	NA	3.47		Χ	0.25	X	0.33
16	NA	3.74	NA	NA	4.55		Χ	0.78		
17	0.81	3.19	0.22	NA	2.66		X	0.53	X	0.41
18	9.59	16.45	8.02	NA	9.89		X	0.94	X	0.91
19	NA	7.23	8.71	NA	0.81	X		0.00	X	0.51
20	13.71	10.07	NA	NA	0.00		Χ	0.62	X	0.79
21	5.83	1.71	11.01	NA	5.22		Χ	0.49	X	0.62
COMBINED	5.11	10.65	5.19	11.42	5.94		X	0.33	X	0.33

- All Results of test with 1,2,3, OTHER, and NONE Mean %TDEF/CPV included.
- Valid Results of test with only 1,2, and 3 ratings Mean %TDEF/CPV included.
 - Y There is a significant difference in the mean %TDEF/CPV between the ratings.
 - N There is not a significant difference in the mean %TDEF/CPV between the ratings.
- P Val Probability that the mean %TDEF/CFV are not significantly different.

from all the samples. The Public Works mission category was chosen because it was common to all the samples after the unusable data was removed. The result is consistent with the findings discussed above. In all cases the test results indicated that there is no significant difference between the mean percentage deficiencies per CPV among the different readiness ratings for the Public Works mission category.

D. INTERPRETATION OF RESULTS

The specific issue that this thesis addresses is: the AIS facilities deficiencies support the readiness ratings assigned to facility condition? Since the facilities deficiencies are stated in dollar terms and vary the activities according to the size of the activities' CPV for each mission, a surrogate for facilities deficiencies was used in the analysis to answer research question. The surrogate was %deficiency/CPV. ratio of deferrable, nondeferrable, and total deficiency over CPV was calculated for each mission category and then grouped by readiness rating. The mean percentages/CPV for each readiness rating was calculated and ANOVA tests were performed to determine if there was a significant difference mean values among different readiness ratings when all five of the readiness ratings were considered, and when the three valid ratings were considered. Table 7 summarizes the test results.

TABLE 7. TEST RESULT SUMMARY

Individual Sample Data

Test Results On

Combined Data

Test Results On

	Individual Dampie Data	combined baca
%DEF/CPV	% Indicating A Significant Difference	SDMF
ALL RATINGS	86	NO
VALID RATINGS	100	NO
%NDEF/CFV ALL RATINGS	90	YES
VALID RATINGS	100	NO
%TDEF/CPV		
ALL RATINGS	86	NO
VALID RATINGS	100	NO

SDMP - Significant Difference in mean percentages

No - There is no significant difference in mean percentage deficiencies/CFV for the different ratings

Yes - There is a significant difference

When only the three valid ratings were considered, the results show that there is no significant difference in the means in all cases. Therefore, considering only valid ratings, the mean %deficiencies/CPV are equal for each of the different readiness ratings. Since the deficiencies/CPV is only a surrogate for AIS deficiencies, it can be inferred

that the mean AIS deficiency is equal for each of the different readiness ratings. Thus it can be inferred that the AIS deficiencies do not support the BASEREP facility condition readiness ratings when the three valid ratings are considered.

The test for all five ratings included two ratings defined by the researcher (Other, None). These two categories are not valid ratings in the sense of being defined by the BASEREP. In a perfect situation, the data in these two categories should be assigned to readiness ratings 1, 2, 3, or 4. However, since there was no way of knowing which rating to assign, and in order to avoid overlooking potentially useful information, the data were grouped in two categories. One category (Other) is for mission categories with a readiness rating other than 1,2,3, or 4, and the second category (None) is for mission categories with a CPV, but with no assigned readiness rating. Although the validity of these two categories is questionable, the test using them was still performed and analyzed. The result does not alter the overall conclusion that the AIS facilities deficiencies do not support the readiness ratings in the BASEREP.

When all five of the readiness ratings are considered in the individual sample test, 86%, 90%, and 86% of the test for mean deferrable, nondeferrable, and total deficiencies/CPV respectively, indicated there is no

significant difference in the mean values among the different readiness rating. This is an average of 87.3%, a percentage high enough to infer there is no statistical significance in the mean percentages/CPV among the different readiness ratings. Since these are surrogate for AIS deficiencies, it can be inferred that the mean AIS deficiency is equal for each different readiness ratings when all five ratings are considered for individual samples. Thus it can be inferred that the AIS deficiencies for individual samples, considering all five readiness ratings do no support the BASEREP facilities condition readiness rating.

When all five readiness ratings are considered for all the samples combined, the test indicated no significant difference in the mean deferrable and total deficiencies/CPV. However, the test indicated a significant difference in the mean percentage nondeferrable deficiency/CPV. This is probably due to the large number of mission categories that have a CPV with zero facilities deficiency in the None readiness rating category, which created a zero mean %NDEF/CPV value in the None rating category. Forty-three percent of the data in the None category had a zero mean %NDEF/CPV.

The test results statistically imply (in all cases except one) that there is no significant difference between

the mean AIS facility deficiency in each of the different readiness ratings. Therefore it is concluded that the facilities deficiencies reported in the AIS do not support the facilities condition readiness ratings reported in the BASEREP.

E. SUMMARY

This chapter presented the data structured by mission category. The interpretation of the data was given along with reasons for excluding some parts of the data prior to testing. The test results infer that there is no significant difference between the mean percentage deficiencies per CPV in each of the readiness ratings. It was concluded that the facilities deficiencies reported in the AIS do not support the readiness ratings reported in the BASEREP.

V. SUMMARY AND CONCLUSION

The objective of this thesis was to examine the AIS and the BASEREP to determine if the AIS facilities deficiencies support the BASEREP readiness ratings on facilities condition. The AIS is a report of facilities deficiencies at the activity level. It lists material deficiencies (in dollars) by investment category, cost account, and deficiencies. The BASEREP is a mission oriented report for assessing shore base readiness. It is structured along two dimensions: Assets and Missions. Among other things, the BASEREP assigns a facilities condition readiness rating to any of the 23 mission categories that is relevant to an activity. Copies of the AIS and BASEREP were collected from Naval activities in California and restructured along the BASEREP mission categories. Using the P-164 summary, the CFV for each mission category composed of category codes was determined.

The ratio of deferrable, nondeferrable, and total facilities deficiencies to CPV was calculated. A statistical analysis was performed on this data. The mean value of these ratios was used as a surrogate for the mean AIS facilities deficiencies. ANOVA tests were performed to determine if the mean percentage deferrable, nondeferrable, and total facilities deficiencies/CPV were equal among the

different readiness ratings. The null hypothesis was that the mean value of the percentage facilities deficiencies per CPV for each readiness rating is equal.

Some mission categories were excluded from the ANOVA tests because there was insufficient data to determine the CPV for mission categories composed of sub-category codes. Mission categories with zero CPV were also excluded because the ratios could not be calculated.

To determine if the mean percentage facilities deficiencies per CPV was significantly different, ANOVA tests were conducted. Tests were performed on the individual samples and the combined sample data—using the three valid readiness ratings (1,2,3) and all five readiness ratings (1,2,3, Other, and None). The validity of the test using all five ratings is questionable because two of the ratings (Other and None) were defined by the researcher—and not by the BASEREP.

In general, the ANOVA test results indicated there was no significant difference in the mean percentage facility deficiencies per CPV among different readiness ratings. Since the mean percentage facilities deficiencies per CPV was a surrogate for the mean AIS facilities deficiencies, this infers that there is no significant difference between the mean AIS facilities deficiencies among the different readiness ratings of the BASEREP.

Based upon analysis of the ANOVA test results, it was concluded that the facilities deficiencies reported in the AIS do not support the BASEREP facilities condition readiness ratings.

APPENDIX A

A TYPICAL ANNUAL INSPECTION SUMMARY REPORT

This appendix contains excerpts from a typical Annual Inspection Summary (AIS) submitted by a field activity to its major claimant. The AIS is used by major claimants to address unfunded facilities deficiencies to higher authorities. The AIS is composed of three sections: The Narrative Assessment, The Cost Account Summary, and The Maintenance and Repair of Real Property Deficiency List. The Narrative Assessment provides current and previous year information summarized by investment category. The Cost Account Summary is a summarization by cost account. The Maintenance and Repair of Real Property Deficiency List is a chronological listing of identified facilities deficiencies.

TYPE "A" ANNUAL INSPECTION SUMMARY - NARRATIVE ASSESSMENT OPNAY 11010/10 (2 80) S/N 0107 LF-110 1050

TYPE "A" ANNUAL INSPECTION SUMMARY - NARRATIVE ASSESSMENT OPNAV 11010/10 (2 80) S/N 0107 LF -110 1050	MARY-NARRATIVE ASSESSMENT 10 1050			REI	REPORT SYMBOL OPNAV 111019
1 ACTIVITY (Nome, Location, Zip Code,			7. FUND SOURCE OGHIN 1804	3 DATE 30 SEP 8 S	Communication
				19 20	racitaties
5. NON DEFENABLE LAST YEAR	6. DEFERABLE LAST YEAR	7. FUNDING LAST YEAR Funded - \$5,3	8. NON DEFERABLE THIS YEAR 9. DEFERABLE THIS YEAR	9. DEFENABLE TH	IS YEAR
0\$	\$2.0		\$0	\$13.0	
10 CONDITION					

Minor deferable deficiencies have been identified and can be corrected at an estimated cost of \$12,636.

Pepair and maintenance to Building 605 is essential to the mission of all commands on Mare Island. This facility

s the Telecommunications Switching Center for the entire Shipyard.

Lamani Objective

Inor repairs to be accomplished as funds are available. 11 SPECIFIC MISSION IMPACT

01 or 19 3 54661 MAJOR CLAIWANT USE REPORT SYMBOL OPNAV 11010 9 AUTOVON NO. 2 7 ٥ 0 ۵ 7 2 POINT OF CONTACT PROJECT 41.41 11 12 13 14 CUMRENT FS OC D1 COST ESTMATE B 79 30 31 33 40 7,800 2,605 3,245 4,340 2,360 1,836 2,789 1,990 2,231 8,781 6,845 8,960 1,230 7,629 DEF DATA ۵ ۵ 6 ۵ -۵ 0 Z z ۵ ام آء Z. 2 -<u>-</u> < < < < < 4 < < < < ! 37.78 05 8 **7**0 07 90 6 6 0 - 2 2 5 00 ٧ 0 -5 7110 23.76 71K0 71K0 71H0 1. E. A. ANNIAL HISTECTION SIMMARY—MAINTENANCE AND REFAIR OF REAL PROPERTY DEFICIENCY LIST. 7110 7260 7260 7260 7110 7110 7110 CDST 7260 7260 7260 NAME FACILITY DATA 17110 18 22 13140 13140 14310 17110 CAT. 13140 15964 15964 15964 15964 15964 17110 15964 17110 = P.AC. 1234 0473 0515 0515 2090 0605 0515 1296 1296 1294 0605 0473 0473 1296 THE COMPUTER SPACES DEFICIENCY OFSCRIPTION Bldg II-34 Repa Struc Bldg 938 Reps Struc Bldg 938 Reps Hech Bldg 938 Reps Elec Bldg 934 Repa Elec 1 ACTIVITY (Nome, Incomm. In Code) Repa Struc Repa Struc Repa Struc Repa Hech Reps Elec Reps Hech Reps Flec Repa Hech Repa Elec 10013 \$0003 20002 10014 E0005 9000H 11007 20004 H0012 E0001 EOOOB H0009 20010 M0002 DEF. 019 VERNMENT EXPENSE

1 1 1

APPENDIX B

BASEREP MISSION CATEGORIES

This Appendix contains the definitions of the Shore Base Mission categories. The definitions are excerpts from The OPNAV INSTRUCTION 3506.167A [Ref 9].

- A. Aviation Operations Provide air traffic control, runway/taxiway/parking/air terminal services, and other support of routine flight operations from a land base; install, modify and maintain ground electronic equipment, air traffic control equipment, arresting gear and communication equipment used in air traffic control; provide crash and rescue service.
- B. Fleet Communication Operations Provide electrical communication services including transmitting, receiving, circuit control, message centers, AUTODIN switching, microwave links, fleet center, ASCOMM, and area communications; and Install, modify and maintain associated equipment.
- C. Port Operations Provide safe approach, berthing and pierside services in support of homeported and visiting vessels; operate service and utility craft, degaussing/deperming ranges; conduct oil spill control and waste recovery operations; and install, modify and maintain

- associated equipment and perform non-shippard maintenance on service/utility craft.
- D. Special Base Operations Perform Naval Oceanography (oceanography, meteorology, mapping, charting and geodesy, astronomy, and chronometry) and Naval Intelligence; and Provide special warfare capabilities including SEAL, UDT and special boat unit support services.
- E. Training Services Provide formal instruction to all personnel with a claimant or sub-claimant approved syllabus; manage instructional programs/curriculum; and operate and maintain training equipment/devices.
- F. Aircraft Maintenance Perform organizational and intermediate level maintenance to designated aircraft and ground support equipment; and Install, modify and maintain shop equipment.
- G. Ship Repair services Perform shippard and shore intermediate maintenance activity (SIMA) services; and Install, modify and maintain associated ship equipment.
- H. Electronic/operational Systems Engineering/Logistics Support fleet electronic hardware/software systems with
 ashore standards/calibration services, intermediate/depot
 level equipment maintenance and operational
 tests/surveys; and Support operational fleet systems with
 in-service testing/evaluation and logistics planning.
- I. RDT&E Conduct Research, Development, Test and Evaluation projects and programs including the operation of

- equipment and range facilities and the maintenance of equipment.
- J. POL Products/Services Receive, store, distribute and account for petroleum products.
- K. Weapons Systems Services Provide receipt, segregation, storage and issue of weapons, conduct inspections, tests and checks; and provide explosive ordnance disposal; operate an armory/small arms range.
- L. Medical/Dental Services Perform complete dental, general clinical hospitalization and health services for authorized personnel, and cooperate with military and civilian authorities on matters pertaining to health and sanitation.
- M. Bachelor Housing/Messing Operate berthing accommodations for officers and enlisted personnel and operate messes and enlisted dining facilities, this includes custodial service personnel in BEQ's/BOQ's; and Operate civilian barracks.
- N. Personal Services Perform military and civilian personnel administration; operate family service centers; provide special services program; conduct human resource management program; operate a laundry; operate general library; and provide religious services and consultations and a Command Master Chief Fetty Officer.
- O. Family Housing Services Provide Navy family housing units to qualified personnel; maintain family housing units;

- and perform services pertaining directly to Navy family housing and off-base housing referral.
- P. Utility Operations Provide plants and central systems for water treatment, waste water treatment, electric power, steam, hot water, compressed air, air conditioning and refrigeration; and operate such plants, systems and auxiliary emergency systems, including operator maintenance and inspection.
- Q. Administrative Services Perform specialized professional services and critical support including legal, public affairs, safety, management assistance, correspondence processing, music, audiovisual, printing and Naval postal services, including ADP services and equipment maintenance, financial planning, programming, budgeting, accounting disbursements and performance analysis.
- R. Public Works Services Perform facilities inspection, engineering, emergency/service work, pest control, and refuse disposal; and Provide hazardous waste collection, identification, packaging, labeling, treatment, disposal, and transport.
- S. Security Services Provide for Master-at-Arms, physical security, law enforcement, confinement and/or corrections, shore patrol, court liaison, courtesy turnovers, deserter/prisoner escort and information/personnel/classified material security services.
- T. Fire Protection Prevent, control, extinguish and

investigate all types of fires; provide fire protection inspections; and maintain and repair fire fighting equipment. Fire alarms are included in utility operations.

- U. Base Transportation Operate vehicle and equipment pools, assign vehicles and equipment; and maintain and repair automotive vehicles, construction, weight-handling, grounds maintenance, railway, fire fighting, materials-handling and ground support equipment not maintained or repaired under other mission areas.
- V. Base Communications Provide personnel, facilities and equipment to perform administrative telephone services and maintain associated equipment.
- W. Supply Services Perform supply management and administrative control; procure, receive, account for, store, issue and control material (except POL); dispose of excess material; and Arrange for shipment and storage of household goods, unaccompanied baggage, mobile homes, and privately owned vehicles.

APPENDIX C

ASSET SPECIFIC RATING DEFINITIONS

RATING	DEFINITION
1	The base asset has fully met all demands
	placed upon it in the mission category
	throughout the reporting period.
2	The base asset has substantially met all
	demands of the mission category throughout the
	reporting period with only minor difficulty.
3	The base asset has only marginally met the
	demands of the mission category throughout the
	reporting period with major difficulty.
4	The base asset has not met vital demands of the
	mission category.

APPENDIX D

A TYPICAL SHORE BASE READINESS REPORT

This appendix contains a typical Shore Base Readiness Report (BASEREP). The BASEREP is used by major claimants, resource sponsors, and program managers to assess mission readiness. The report is structured along two dimensions: twenty-three mission categories and three asset categories. Asset specific ratings of 1 through 4 are assigned to the assets for each applicable mission category. Narrative explanations are provided for ratings of 3 and 4.

NAVAL MESSAGE DEPT OF NAVY

n

MEDICAL

ROUTINE ZYUW RUWNSGG5256 2270109 SARROR HT INFO CINCPACELT PEARL HARBOR HI PACHAVEACENGCOM PEARL HARBOR HI CHO WASHINGTON DC UNCLAS //NO3SD1//
SUBJ: SHORE BASE READINESS REPORT (BASEREP)
A. COMMAYLOGPAC PEARL HARBOR HI D8DZ23Z AUG 85 B. OPNAVINST 3501.167 L. SUBJECT REPORT SUBMITTED AS REQUIRED BY REFS (A) AND (B):
A. ACTIVITY UIC. 65890
B. ACTIVITY TITLE: MAVAL STATION MARE ISLAND
C. REPORT DATE: 14 ALG 85 (DATA AS OF 3D JUN 85) D. PART I - READINESS STATUS FACILITIES NAJOR EQUIPMENT PERSONNEL HISSION AREAS OUAN COND OUAN COMO PORT OPERATIONS I. WEAPONS SYSTEMS ٦. MEDICAL BOO/BEO/MEZZING PERSONAL SERVICES FAMILY HOUSING N. 0 ADMINISTRATIVE 0. PUBLIC WORLS SECURITY T. FIRE PROTECTION
V. BASE COMMUNICATIONS SUPPLY E. PART II - MARRATIVE EXPLANATION (1) BOO/BEO/MESSIMG: PERSONNEL RATING 3 ASSIGNED DUE TO REDUIREMENT FOR 17 BILLETS TO SUPPORT MANAGEMENT OF COMBAT SYSTEMS TECHNICAL SCHOOLS COMMAND (CSTSC) BARRACES SPACES BEING TRANSFERRED

TECHNICAL SCHOOLS COMMAND (CSISC) BANKACES SPACES BEIGG TRANSPERREI TO THIS COMMAND. BACHELOR MOLISING FACILITIES QUANTITY RATING 3 ASSIGNED AS OVER 200 CSTSC PERSONNEL ARE LIVING ON THE ECONOMY. PROJECTED INCREASED STUDENT LOADING IN FY85 WILL PRODUCE DEFICIT INCREASE OF 100-175. FACILITIES CONDITION RATING 3 ASSIGNED BASED ON REQUIRED USE OF 2 WORLD WAR 2 VINTAGE BUILDINGS WHICH ARE IN ON REQUIRED USE OF 2 WORLD WAR 2 YINTAGE BUILDINGS WHICH ARE IN
SUBSTANDARD COMDITION. ONE SLATED FOR DEMOLITION IN CYSS: OWE IN
FY87. EQUIPMENT COMDITION RATING 3 ASSIGNED DUE TO REQUIREMENT TO
REFLACE WORN OUT BEO EQUIPMENT INCLUDED IN FY86 BUDGET SUBMISSION.
(2) PERSONAL SYCS: PERSONNEL RATING 3 ASSIGNED DUE TO INABEQUATE STAFF IN CIV PERSONNEL/ADMIN OFFICE. INCLUDED IN PON SUBMISSIONS AND WILL BE REFLECTED IN OPTIMEN POSITION STRUCTURE (OPS).
(3) FAMILY MOUSING: PERSONNEL RATING 3 ASSIGNED DUE TO INABEQUATE CYVILIAN STAFF. INCLUDED IN PON SUBMISSIONS AND WILL BE

REFLECTED IN OPS.

(4) ADMINISTRATIVE: PERSONNEL RATING 3 ASSIGNED DUE TO INADEQUATE CIVILIAN STAFF IN SUPPORT OF SAFETY PROGRAM EQUIPMENT
QUANTITY RATING 3 ASSIGNED DUE TO OUTDATED WORD PROCESSING EQUIPMENT.

(S) SECURITY SVCS: PERSONNEL RATING 3 ASSIGNED DUE TO IN-ADEQUATE STAFF IN POLICE/LAW ENFORCEMENT FUNCTION. INCLUDED IN POM

ADEQUATE STAFF IN POLICE/LAW ENFORCEMENT FUNCTION. INCLIDED IN POM
87 SUBMISSION AND WILL BE REFLECTED IN OPS.
(6) FIRE PROTECTION: FACILITY CONDITION RATING 3 ASSIGNED
DUE TO POOR CONDITION OF CENTRAL FIRE STATION. STATION REPLACEMENT
PLANNED BY P-25D, SHIPYARD MILCON PROJECT. UNPROGRAMMED AT THIS
THE EQUIPMENT CUANTITY RATING 3 ASSIGNED DUE TO LACE OF FIRE
SUPPRESSION EQUIPMENT. INCLUDED IN FY88 BUDGET AND POM.
(7) BASE COMMUNICATIONS: EQUIPMENT QUANTITY AND CONDITION
RATING 3 ASSIGNED DUE TO OVERAGE OF SWITCHING AND CABLE EQUIPMENT.
REPLACEMENT PLANNED UNDER CONSOLIDATED AREA TELEPHONE SYSTEM (CATS),
SAM FRANCISCO, CONTRACT ADMINISTERED BY WESTMAVFACENGOM, AWARD
FEMERATED IN REC AS. SYRE RUDGET COND. SUMMES FOR JUMPERSKY EXPECTED IN DEC 85. FY88 BUDGET/POM SUBMISSIONS MADE FOR INCREASED COSTS OF SERVICES.

2. THE FOLLOWING PROVIDES MANPOWER/PERSONNEL READINESS ASSESSMENT:

REQUIRED PERSONNEL ON-BOARD MISSION AREAS HIL CIV CON TAD OTHER HIL CIV PORT OPERATIONS K. WEAPONS SYSTEMS n ۵ ۵ ۵ ń n D

CNO WASH DO ADV 36 (11) INFO

090(1) 92(7) 91(1) 01(2) 02(1) 03(2) 32(2) 04(2) 40(6) 41(1) 05(4) 54(1) NCC(1) CC(1)

BOO/BEO/MESSING PERSONAL SVES 20 10 0 **FARTLY HOUSTNG** 12 ۵ 9 ADMINISTRATIVE SVCS 11 18 11 13 PUBLIC WORKS SECURITY SVCS IDD 119 FIRE PROTECTION Õ 54 ٥ 48 Ď BASE COMMUNICATIONS n n 4 n SUPPLY SVCS POC THIS COMMAND IS JEAN GRAVES, AUTOVON 253-2311, BT

70/03

TAD=85227/0142Z MCN=85227/01867 TOR=85227/0120Z UNCLASSIFIED

CDSN=MAD955 PAGE PAGE 1 OF 1 1420027 AUG 85

APPENDIX E

SELECTED NAVAL ACTIVITIES

The following activities were selected to form the data base for this thesis.

- 1. Naval Hospital, San Diego, California
- 2. Naval Supply Center, San Diego, California
- Naval Training Center, San Diego, California
- 4. Naval Station, San Diego, California
- 5. Naval Air Station, North Island, California
- 6. Submarine Base, San Diego, California
- Shore Intermediate Maintenance Activity, San Diego, California
- 8. Naval Air Station, Miramar, California
- 9. Naval Hospital, Oakland, California
- 10. Naval Supply Center, Dakland, California
- 11. Naval Air Station, Alemeda, California
- 12. Naval Air Station, Moffett Field, California
- 13. Naval Station, Treasure Island, California
- 14. Shore Intermediate Maintenance Activity, San Francisco, California
- 15. Construction Battalion Center, Port Hueneme, California
- 16. Naval Postgraduate School, Monterey, California
- 17. Naval Station, Mare Island, California

APPENDIX F

BASEREP MISSIONS, CATEGORY AND INVESTMENT CODE RELATIONSHIPS

The following relationships were derived from The NAVFAC P-72 AND MATH TECH, INC [Ref. 8].

	MISSION	CATEGORY CODE (CC)	INVESTMENT CODE
A.	AVIATION OPS	111-113,116,121,133,134 136,141,142,149	01 PLUS CC 142
В.	FLEET COM	131,132,135 (LESS 131-40, 131-60,132-50,132-55,135-20	
C.	PORT OPS	122,151-156,159,161-165,169	03
D.	SPECIAL BASE OPS	137,138,143,148	04 (LESS CC 123,126, 142)
E.	TRAINING	171,179	05
F.	ACFT MNT	211,221	06
G.	SHIP MNT	213,223	07
н.	ELEX/LOG	217,227	
I.	RDTE	310-321,371,390	09
J.	POL SVS	124-126,411	10 (PLUS CC 126 MINUS 412)
к.	WEAPON SYS SVCS	212,215,216,218,222,225 226,228,421,423-425	11(PLUS CC 212,215,216 218,222,225,226,228)
L.	MED/DEN	510-550	13
М.	UPH/MESS	721-725 LESS 721-40	15 (LESS 721-40)
И.	PERSONNEL SERVICES	730-760 LESS 730-(10,11,12 20,25,76)	16 (LESS 730-(10 11,12,15,20,25,76))
0.	FAM HSE	711-714	20

	MISSION	CATEGORY CODE (CC)	INVESTMENT CODE
Ρ.	UTILITIES	811-832,834-842,844,845 890, LESS 812-40	17 (LESS 812-40,833 843.880,932)
O.	ADMIN	610 (LESS 610-30,610-40) 620,690 (LESS 690-15)	14 (LESS 610-30 610-40,690-15)
R.	PUB WRKS	219,229,833,871	
s.	SECURITY	872,610-30,610-40,690-15 721-40,730-{15,20,25,76} 812-40,860-20	
Τ.	FIRE PROT	843, 880,730-{10,11,12}	
U.	BASE TRANS	123,214,224,851,852 860 (LESS 860-20)	
٧.	BASE COM	131-40, 131-60, 132-50, 135-20	
W.	SUP SVCS	412,431,441,451	12 (FLUS 412)

APPENDIX G

DATA RESTRUCTURED ALONG BASEREP MISSION CATEGORY

This appendix contains the data after it was restructured along the BASEREP mission categories. The readiness ratings (RED RAT) came from the BASEREP. The deferrable, nondeferrable and total deficiencies (DEFER, NDEFER, TOTDEF) were extracted from the AIS. CPV was extracted from the Activities P-164 Summary.

Six mission categories CPV could not be determined by the research due to insufficient data, and are identified by the letter "I" in the CPV column. Several mission categories had no CPV, and are identified as "O" in the CPV column and "ERR" in the percentage columns. The mission category of Family Housing is not listed in the AIS. For the reasons discussed above these categories will be excluded from the Statistical Test.

TABLE G.1. RESTRUCTURED DATA FOR ACTIVITY #1

•	ED DEF			TOTDEF (000)	CPV (000)	%DEF %	NDEF 7	
AVIATION _	 			0	2369	0.00	0.00	0.00
FLT COMS _		0	0	o	I			
PORT OPS _		0	0	O	0	ERR	ERR	ERR
SPEC OPS _		0	5	5	7822	0.00	0.06	0.06
TRAINING	2 17	79	1034	2813	65543	2.71	1.58	4.29
ACFT MNT _		0	0	O	0	ERR	ERR	ERR
SHIP MNT _		0	0	0	0	ERR	ERR	ERR
ELEX/LOG _		0	0	O	357	0.00	0.00	0.00
RDTE _		0	0	0	219	0.00	0.00	0.00
FOL SVCS _		0	0	0	29	0.00	0.00	0.00
WEAPON -		0	0	0	0	ERR	ERR	ERR
MED/DEN _		0	0	0	0	ERR	ERR	ERR
UPH/MESS 3	/1 12	50	24	1274	10463	11.95	0.23	12.18
FERS SVC	2 4	54	142	596	I			
FAM HSE	2 N	TOI	LISTE	D AIS				
UTILITIES :	2 6	01	3191	3972	26361	2.28	12.11	15.07
ADMIN	2 36	75	382	4057	I			
PUB WRKS	i 6	00	2	602	6547	9.16	0.03	9.20
SECURITY	2 3	50	0	350	I			
FIRE PROT	2	O	25	25	I			
BASE TRN	1	0	114	114	13277	0.00	0.86	0.86
BASECOMS	2	0	O	0	I			
SUP SVCS	1	0	0	0	747	0.00	0.00	0.00

TABLE G.2. RESTRUCTURED DATA FOR ACTIVITY #2

RE RA	D DEFER T (000)	NDEFER (000)	TOTDEF (000)	CPV (000)	%DEF %	NDEF %	TDEF /CPV
AVIATION 1				19	0.00	0.00	0.00
FLT COMS	_ 0	0	0	I			
FORT OFS	_ 0	0	O	0	ERR	ERR	ERR
SPEC OPS	_ 0	0	0	3	0.00	0.00	0.00
TRAINING 1	13	29	42	1197	1.09	2.42	3.51
ACFT MNT	_ 0	0	0	0	ERR	ERR	ERR
SHIP MNT	_ 0	0	0	0	ERR	ERR	ERR
ELEX/LOG	_ 0	0	0	0	ERR	ERR	ERR
RDTE 1	0	0	0	Ō	ERR	ERR	ERR
FOL SVCS	_ 0	0	0	0	ERR	ERR	ERR
WEAPON SYS SVCS	_ 0	0	0	0	ERR	ERR	ERR
MED/DEN 2	1183	975	2158	91889	1.29	1.06	2.35
UPH/MESS 3	621	44	665	9835	6.31	0.45	6.76
PERS SVC 2	120	35	155	I			
FAM HSE 1	NOT	LISTED) AIS		ERR	ERR	ERR
UTILITIES 2	0	1	1	1243	0.00	0.08	0.08
ADMIN 2	92	61	153	I			
PUB WRKS 2	42	2	44	3691	1.14	0.05	1.19
SECURITY 2	3	32	35	I			
FIRE PROT 2	0	0	0	I			
BASE TRN 2	629	145	774	4748	13.25	3.05	16.30
BASECOMS 2	0	0	0	I			
SUP SVCS 3	0	0	0	11	0.00	0.00	0.00

TABLE G.3. RESTRUCTURED DATA FOR ACTIVITY # 3

	RED RAT	DEFER (000)	NDEFER (000)	TOTDEF (000)	CPV (000)	%DEF :	NDEF 7	
AVIATION					2322	0.00	0.00	0.00
FLT COMS		0	0	0	I			
PORT OFS		0	0	0	0	ERR	ERR	ERR
SPEC OFS			1	1	9582	0.00	0.01	0.01
TRAINING		618	1151	1769	63902	0.97	1.80	2.77
ACFT MNT		0	0	O	0	ERR	ERR	ERR
SHIP MNT		0	0	0	0	ERR	ERR	ERR
ELEX/LOG		0	1	1	349	0.00	0.29	0.29
RDTE		0	0	0	214	0.00	0.00	0.00
FOL SVCS		0	0	O	28	0.00	0.00	0.00
WEAPON SYS SVCS		0	0	٥	0	ERR	ERR	ERR
MED/DEN		0	0	O	0	ERR	ERR	ERR
UPH/MESS	2/1	1093	0	1093	10266	10.65	0.00	10.65
PERS SVC	1	112	2	114	I			
FAM HSE	2	NOT	LISTED) AIS				
UTILITIES	2	99	1695	1794	29698	0.33	5.71	6.04
ADMIN	1	1936	255	2191	I			
PUB WRKS	1	0	1	1	6413	0.00	0.02	0.02
SECURITY	1	0	10	10	I			
FIRE PROT	2	0	9	9	I			
BASE TRN	2	0	108	108	13015	0.00	0.83	0.83
BASECOMS	1	0	0	0	I			
SUP SVCS	2	0	0	0	548	0.00	0.00	0.00

TABLE G.4. RESTRUCTURED DATA FOR ACTIVITY # 4

		NDEFER (000)				%NDEF % /CPV	
AVIATION			ō	<u>7</u> 9	0.00	0.00	0.00
FLT COMS _	0	0	0	I			
PORT OPS _	0	0	0	0	ERR	ERR	ERR
SPEC OFS _	o	1	1	9220	0.00	0.01	0.01
TRAINING 2	2 737	270	1007	64696	1.14	0.42	1.56
ACFT MNT	0	0	0	0	ERF	ERR	ERR
SHIP MNT _	0	0	0	O	ERR	ERR	ERR
ELEX/LOG _	0	0	O	337	0.00	0.00	0.00
RDTE	0	0	0	207	0.00	0.00	0.00
POL SVCS _	0	0	0	56	0.00	0.00	0.00
WEAPON SYS SVCS	0	0	0	0	ERF	ERR	ERR
MED/DEN _	0	0	0	0	ERF	ERR	ERR
UPH/MESS 2	951	781	1732	9988	9.52	7.82	17.34
PERS SVC 2	2 40	15	55	I			
FAM HSE	2 NOT	LISTE) AIS				
UTILITIES :	2 99	1684	1783	24796	0.40	6.79	7.19
ADMIN 3	2 1554	50	1604	I			
FUB WRKS	2 0	1	1	2349	0.00	0.04	0.04
SECURITY :	2 10	0	10	I			
FIRE FROT	2 1	8	9	I			
BASE TRN :	2 0	100	100	12681	0.00	0.79	0.79
BASECOMS	. 0	0	0	I			
SUP SVCS	2 0	O	0	529	0.00	0.00	0.00

TABLE G.5. RESTRUCTURED DATA FOR ACTIVITY # 4

	RED RAT	DEFER (000)	NDEFER (000)		CPV (000)	%DEF :	NDEF %	TDEF /CPV
AVIATION		-		<u></u>	95	0.00	0.00	0.00
FLT COMS		0	0	0	I			
PORT OPS	3	2	2857	2859	146711	0.00	1.95	1.95
SPEC OPS		6	12	18	1213	0.49	0.99	1.48
TRAINING		479	305	784	43526	1.10	0.70	1.80
ACFT MNT		0	0	0	0	ERR	ERR	ERR
SHIP MNT		465	725	1170	11038	4.21	6.57	10.78
ELEX/LOG		80	0	80	2655	3.01	0.00	3.01
RDTE		0	0	٥	428	0.00	0.00	0.00
POL SVCS		0	0	0	566	0.00	0.00	.0.00
WEAPON SYS SVCS		1	0	1	603	0.17	0.00	0.17
MED/DEN		O	10	O	10396	0.00	0.10	0.00
UPH/MESS	2	25	84	109	34684	0.07	0.24	0.31
PERS SVC	4	1716	1099	2815	I			
FAM HSE		NOT	LISTED	AIS				
UTILITY		6	12	18	1890	0.32	0.63	0.95
ADMIN	2	301	1000	1301	I			
PUB WRKS		3414	52	3466	2739	124.6	1.90	126.5
SECURITY	3	771	1581	2352	I			
FIRE PRO		0	8	8	I			
BASE TRN		3038	2696	5734	13298	22.85	20.27	43.12
BASECOMS		0	0	0	I			
SUP SVCS	2	35	1166	1201	6118	0.57	19.06	19.63

TABLE G.6. RESTRUCTURED DATA FOR ACTIVITY # 6

RED RAT		NDEFER (000)		CPV (000)			
AVIATION			<u></u>		ERR	ERR	ERR
FLT COMS	O	0	0	I			
PORT OPS	1419	3198	4617	47407	2.99	6.75	9.74
SPEC OPS	Ó	0	0	683	0.00	0.00	0.00
TRAINING	0	0	0	991	0.00	0.00	0.00
ACFT MNT	0	0	0	0	ERR	ERR	ERR
SHIP MNT	0	0	0	25	0.00	0.00	0.00
ELEX/LOG	0	0	0	0	ERR	ERR	ERR
RDTE	41	11	52	931	4.40	1.18	5.59
FOL SVCS	492	151	643	118874	0.41	0.13	0.54
WEAPON SYS SVCS	14	3	17	270	5.19	1.11	6.30
MED/DEN	19	0	19	794	2.39	0.00	2.39
UPH/MESS	Ō	0	0	0	ERR	ERR	ERR
PERS SVC 2	30	4	34	I			
FAM HSE	NOT	LISTED	AIS				
UTILITIES 2	21	0	21	8835	0.24	0.00	0.24
ADMIN 2	421	4	425	I			
PUB WRKS	70	10	80	5941	1.18	0.17	1.35
SECURITY 2	137	0	137	I			
FIRE PRO	10	O	10	I			
BASE TRN 2	208	226	43	6130	3.39	3.69	7.08
BASECOMS	0	0	0	I			
SUP SVCS	2998	591	3589	100413	2.99	0.59	3.57

TABLE G.7. RESTRUCTURED DATA FOR ACTIVITY # 7

	RED RAT	DEFER (000)	NDEFER (000)	TOTDEF (000)	CPV (000)		NDEF 7	TDEF /CPV
AVIATION						ERR	ERR	ERR
FLT COMS		0	o	Ó	I			
PORT OPS	2	692	4207	4899	46467	1.49	9.05	10.54
SPEC OPS		224	24	248	869	25.78	2.76	28.54
TRAINING		0	0	0	959	0.00	0.00	0.00
ACFT MNT		0	0	0	0	ERR	ERR	ERR
SHIP MNT		0	0	0	24	0.00	0.00	0.00
ELEX/LOG		0	0	0	0	ERR	ERR	ERR
RDTE		20	15	35	911	2.20	1.65	3.84
FOL SVCS		33	559	592	116241	0.03	0.48	0.51
WEAPON SYS SVCS		2	5	. 7	266	0.75	1.88	2.63
MED/DEN		17	7	24	979	1.74	0.72	2.45
UPH/MESS		0	0	0	0	ERR	ERR	ERR
PERS SVC		2	4	6	I			
FAM HSE		NOT	LISTE) AIS				
UTILITY		3	21	24	8566	0.04	0.25	0.28
ADMIN	2	564	1166	1730	I			
PUB WRKS		55	45	100	5823	0.94	0.77	1.72
SECURITY	2	8	3	11	I			
FIRE PRO	2	0	0	0	I			
BASE TRN	2	362	56	418	5091	7.11	1.10	8.21
BASECOMS		0	0	0	I			
SUP SVCS	2	3012	996	4008	98400	3.06	1.01	4.07

TABLE G.8. RESTRUCTURED DATA FOR ACTIVITY # 8

RED RAT		NDEFER (000)		CPV (000)		NDEF %	
AVIATION			<u>ō</u>		ERR	ERR	ERR
FLT COMS	O	0	0	I			
FORT OPS 2	477	4231	4708	45238	1.05	9.35	10.41
SPEC OPS	33	35	68	651	5.07	5.38	10.45
TRAINING	0	0	Ŏ	936	0.00	0.00	0.00
ACFT MNT	0	0	0	0	ERR	ERR	ERR
SHIF MNT	4	1	5	24	16.67	4.17	20.83
ELEX/LOG	0	0	0	0	ERR	ERR	ERR
RDTE 2	22	16	38	882	2.49	1.81	4.31
FOL SVCS	124	336	460	113217	0.11	0.30	0.41
WEAPON SYS SVCS	1	. 2	0.3	257	0.39	0.78	1.17
MED/DEN	15	4	19	759	1.98	0.53	2.50
UPH/MESS	0	0	0	Q	ERR	ERR	ERR
PERS SVC 2	8	3	11	I			
FAM HSE	NOT	LISTED	AIS				
UTILITY	1	84	85	8154	0.01	1.03	1.04
ADMIN 2	35	1229	1264	I			
PUB WRKS	55	40	95	5892	0.93	0.68	1.61
SECURITY 2	73	21	94	I			
FIRE PROT 2	0	0	Ō	I			
BASE TRN 2	795	8	803	5025	15.82	0.16	15.98
BASECOMS	794	9	803	I			
SUP SVCS 2	1203	1275	2478	95656	1.26	1.33	2.59

TABLE G.9. RESTRUCTURED DATA FOR ACTIVITY # 9

	RED RAT	DEFER	NDEFER (000)		CPV (000)			
AVIATION		ō		ō		ERR	ERR	ERR
FLT COMS		0	0	0	I			
PORT OPS	2	9	18	27	8037	0.11	0.22	0.34
SPEC OPS		3	0	3	61	4.92	0.00	4.92
TRAINING		125	971	1096	5809	0.22	1.67	1.87
ACFT MNT		0	0	. 0	0	ERR	ERR	ERR
SHIP MNT		20	0	20	30	66.67	0.00	66.67
ELEX/LOG		20	445	465	13682	0.15	3.25	3.40
RDTE		0	0	0	0	ERR	ERR	ERR
POL SVCS		0	0	0	0	ERR	ERR	ERR
WEAPON SYS SVCS	2	0	0	0	0	ERR	ERR	ERR
MED/DEN	2	52	0	52	4510	1.15	0.00	1.15
UPH/MESS	3	217	1482	1699	52357	0.41	2.83	3.25
PERS SVC	2	429	698	1127	I			
FAM HSE	2	тои	LISTE	D AIS				
UTILITY		0	0	0	153210	0.00	0.00	0.00
ADMIN	2	54	87	901	I			
PUB WRKS	2	96	192	288	8345	1.15	2.30	3.45
SECURITY	2	7	21	28	I			
FIRE PROT	3	0	0	0	I			
BASE TRN		0	0	0	5374	0.00	0.00	0.00
BASECOMS	2	13	0	13	I			
SUP SVCS	2	131	79	210	10395	1.26	0.76	2.02

TABLE G.10. RESTRUCTURED DATA FOR ACTIVITY # 10

RED RAT		NDEFER (000)		CFV (000)		INDEF %	
AVIATION 2	27188	3707	30875	155345	17.50	2.39	19.8
FLT COMS	459	233	692	I			
PORT OPS	729	3	732	615	118.54	0.49	119.0
SPEC OPS	81	0	81	1134	7.14	0.00	7.14
TRAINING 2	8138	366	8504	4244	191.75	8.62	200.4
ACFT MNT	2005	966	3001	123064	1.63	0.81	2.44
SHIP MNT	Ō	0	0	O	ERR	ERR	ERR
ELEX/LOG	0	0	0	0	ERR	ERR	ERR
RDTE	0	0	0	156	0.00	0.00	0.00
FOL SVCS 2	52	500	552	9107	0.57	5.49	6.06
WEAPON 2 SYS SVCS	349	829	1178	4048	8.62	20.48	29.10
MED/DEN	0	0	0	4210	0.00	0.00	0.00
UPH/MESS 3	1248	778	2206	48520	2.57	1.60	4.18
PERS SVC 2	410	754	2702	I			
FAM HSE 2	тои	LISTE	ED AIS				
UTILITIES 3	2534	1893	4427	53352	4.75	3.55	8.30
ADMIN 2	156	372	528	I			
PUB WRKS 2	866	21	887	4483	19.32	0.47	19.79
SECURITY 2	2	0	2	I			
FIRE PROT 1	990	1	991	I			
BASE TRN 2	822	141	963	28736	2.86	0.49	3.35
BASECDMS 3	0	0	0	I			
SUP SVCS 3	118	21	139	6009	1.96	0.35	2.31

TABLE G.11. RESTRUCTURED DATA FOR ACTIVITY # 11

RE RA		NDEFER (000)		CPV (000)		ANDEF :	
AVIATION 2	17929	9705	-276 34	148490	12.07	6.54	18.61
FLT COMS	708	Q	708	I			
PORT OPS	_ 79	0	79	594	13.30	0.00	13.30
SPEC OPS	_ 3	0	3	1104	0.27	0.00	0.27
TRAINING 2	596	303	899	4106	14.52	7.38	21.89
ACFT MNT 2	3356	917	4273	119370	2.81	0.77	3.58
SHIP MNT	_ 0	0	0	0	ERR	ERR	ERR
ELEX/LOG	_ 0	O	O	O	ERR	ERR	ERR
RDTE	_ 0	0	0	156	0.00	0.00	0.00
POL SVCS 2	42	172	214	8847	0.47	1.94	2.42
WEAPON 2 SYS SVCS	778	491	1269	2967	26.22	16.55	42.77
MED/DEN	_ 1	0	1	4101	0.02	0.00	0.02
UPH/MESS 2	2234	425	2659	45654	4.89	0.93	5.82
PERS SVC 2	850	132	982	I			
FAM HSE 2	NOT L	STED AI	S				
UTILITIES 3	3464	476	3940	47757	7.25	1.00	8.25
ADMIN 2	53	480	533	I			
PUB WRKS 2	708	435	1143	4357	16.25	9.98	26.23
SECURITY 2	458	0	458	I			
FIRE PROT 1	155	469	624	I			
BASE TRN 2	1394	105	1499	27023	5.16	0.39	5.55
BASECOMS 3	99	0	99	I			
SUP SVCS 3	202	5	207	5829	3.47	0.09	3.55

TABLE G.12. RESTRUCTURED DATA FOR ACTIVITY # 12

RED RAT		NDEFER (000)		CPV (000)		NDEF %	
"AVIATION	ō		<u>ō</u>	<u>ō</u>	ERR	ERR	ERR
FLT COMS	0	0	0	I			
PORT OPS	178	0	178	856	20.79	0.00	20.79
SPEC OPS	0	0	0	121	0.00	0.00	0.00
TRAINING 3	2932	1032	3964	67155	4.37	1.54	5.90
ACFT MNT	116	0	116	0	ERR	ERR	ERR
SHIP MNT	5	0	5	0	ERR	ERR	ERR
ELEX/LOG	0	0	0	0	ERR	ERR	ERR
RDTE	9	0	9	476	1.89	0.00	1.89
POL SVCS	0	0	0	0	ERR	ERR	ERR
WEAPON 3 SYS SVCS	0	0	0	0	ERR	ERR	ERR
MED/DEN	225	14	239	4586	4.71	0.31	5.21
UPH/MESS 3	891	5197	6088	131307	0.48	3.96	4.64
PERS SVC 3	1526	82	1608	I			
FAM HSE	NOT	LISTE) AIS				
UTILITY	27	1	28	3779	0.71	0.03	0.74
ADMIN 2	179	0	179	I			
PUB WRKS 2	495	4	499	7109	6.96	0.06	7.02
SECURITY 3	56	523	579	I			
FIRE PROT	0	0	0	I			
BASE TRN 2	600		600	15955	3.76	0.00	3.76
BASECOMS	0	0	0	I			
SUP SVCS 2	169	48	217	9184	1.84	0.52	2.36

TABLE G.13. RESTRUCTURED DATA FOR ACTIVITY # 13

	RED RAT	DEFER	NDEFER (000)		CPV (000)		ANDEF :	
AVIATION		6647	4432	11079	40060	16.59	11.06	27.66
FLT COMS		ত	0	3	I			
PORT OPS	2	7375	484	7859	78803	9.36	0.61	9.97
SPEC OPS		29	0	29	1985	1.46	0.00	1.46
TRAINING		0	12	12	1662	0.00	0.72	0.72
ACFT MNT	2	1557	44	1601	214130	0.73	0.02	0.75
SHIP MNT		119	422	541	1180	10.08	35.76	45.85
ELEX/LOG		5	0	5	599	0.83	0.00	0.83
RDTE		0	0	0	0	ERR	ERR	ERR
FOL SVCS	2	46	423	469	7726	0.60	5.48	6.07
WEAPON SYS SVCS	2	56	60	116	3846	1.46	1.56	3.02
MED/DEN		13	75	88	4445	0.29	1.69	1.98
UPH/MESS	3	729	2789	3518	110020	0.66	2.53	3.20
PERS SVC	2	727	618	1345	I			
FAM HSE		тои	LISTED	AIS				
UTILITY		9	0	9	5519	0.16	0.00	0.16
ADMIN	2	56	240	296	I			
FUB WRKS	2	644	3	647	7256	8.88	0.04	8.92
SECURITY	2	2	0	2	I			
FIRE PRO	Г 2	0	O	O	I			
BASE TRN		911	1054	1965	47424	1.92	2.22	4.14
BASECOMS	3	0	o	o	I			
SUP SVCS	1	541	1274	1815	44743	1.21	2.85	4.06

TABLE G.14. RESTRUCTURED DATA FOR ACTIVITY # 14

RE. RA		NDEFER (000)	TOTDEF (000)			NDEF ;	
AVIATION 2	2	13753	13755	39487	0.01	34.83	34.83
FLT COMS	_ 0	9	9	I			
FORT OPS 2	2	7546	7548	65933	0.00	11.44	11.45
SPEC OPS	_ 13	4	17	5825	0.22	0.07	0.29
TRAINING	_ 0	16	16	1625	0.00	0.98	0.98
ACFT MNT 2	128	1041	1169	210867	0.06	0.49	0.55
SHIP MNT	_ 1	323	324	4034	0.02	8.01	8.03
ELEX/LOG	_ 0	0	0	587	0.00	0.00	0.00
RDTE	_ 0	0	0	0	ERR	ERR	ERR
POL SVC 2	0	453	453	1361	0.00	33.28	33.28
WEAPON 2 SYS SVCS	0	126	126	965 3	0.00	1.31	1.31
MED/DEN	_ 0	37	37	3457	0.00	1.07	1.07
UPH/MESS 3	4	1961	1965	84757	0.00	2.31	2.32
PERS SVC 2	52	1290	1342	I			
FAM HSE	NOT	LIST	ED AIS				
UTILITY	_ 0	6	6	4769	0.00	0.13	0.13
ADMIN 2	14	238	252	I			
PUB WRKS	_ 3	31	34	7065	0.04	0.44	0.48
SECURITY 3	0	21	21	I			
FIRE PRO 2	0	0	0	I			
BASE TRN	_ 8	1849	1857	53767	0.01	3.44	3.45
BASECOMS 3	0	0	0	I			
SUP SVCS 3	46	2209	2255	43849	0.10	5.04	5.14

TABLE G.15. RESTRUCTURED DATA FOR ACTIVITY # 15

	RED	DEFER (000)	NDEFER (000)	TOTDEF (000)	CFV (000)	%DEF :	NDEF 7	
AVIATION -	2	7498	8821	16319	37714	19.88	23.29	43.27
FLT COMS _		0	0	o	I			
PORT OPS	3	23	5754	5777	75243	0.03	7.65	7.68
SPEC OPS _		28	2	30	1370	2.04	0.15	2.19
TRAINING _		8	144	152	1567	0.51	9.19	9.70
ACFT MNT	3	163	469	632	204420	0.08	0.23	0.31
SHIP MNT _		4	206	210	6829	0.06	3.02	3.08
ELEX/LOG _		0	i	1	572	0.00	0.17	0.17
RDTE _		0	0	0	0	ERR	ERR	ERR
POL SVCS	2	1	45	46	7374	0.01	0.51	0.62
WEAPON SYS SVCS	2	70	527	597	9346	0.75	5.64	6.39
MED/DEN _		6	123	129	4240	0.14	2.90	3.04
UPH/MESS	3	33	2422	1455	105040	0.03	1.35	1.39
PERS SVC	2	199	1128	1327	I			
FAM HSE _		NOT	LISTED	AIS				
UTILITY _		0	5	5	6004	0.00	0.08	0.08
ADMIN	2	5	134	139	I			
PUB WRKS	2	2	419	421	6940	0.03	6.13	6.15
SECURITY	3	12	14	26	- I			
FIRE PROT	2	21	11	32	I			
BASE TRN _		1877	648	2525	42113	4.46	1.54	6.00
BASECOMS	3	0	6	6	I			
SUP SVCS	3	220	1900	2120	42629	0.52	4.46	4.97

TABLE G.16. RESTRUCTURED DATA FOR ACTIVITY # 16

RED RAT	DEFER (000)	NDEFER (000)	TOTDEF (000)	CFV (000)	%DEF %		
AVIATION 2	<u>-</u> 862	758	1620	138376	0.62	0.55	-1.17
FLT COMS	2	97	99	I			
PORT OPS 2	706	15300	16006	94237	0.75	16.24	16.98
SPEC OPS	43	0	43	3185	1.35	0.00	1.35
TRAINING	761	313	1074	40086	1.90	0.78	2.68
ACFT MNT 2	2289	1188	3477	288696	0.79	0.41	1.20
SHIP MNT	86	0	86	478	17.27	0.00	17.27
ELEX/LOG	0	0	0	2642	0.00	0.00	0.00
RDTE	109	0	109	26360	0.41	0.00	0.41
FOL SVCS 2	20	0	20	25009	0.08	0.00	0.08
WEAPON 2 SYS SVCS	227	11	238	18555	1.22	0.06	1.28
MED/DEN	253	0	253	5692	4.44	0.00	4.44
UPH/MESS 2	672	364	1036	69495	0.97	0.52	1.49
PERS SVC 2	1634	0	1634	I			
FAM HSE	NOT	LIST	ED AIS				
UTILITY	231	299	530	6972	3.31	4.29	7.60
ADMIN 2	1214	0	1214	I			
PUB WRKS 2	1351	0	1351	43599	3.10	0.00	3.10
SECURITY 2	70	72	142	I			
FIRE PROT 3	26	0	26	I			
BASE TRN	2030	345	23 95	87997	2.31	0.41	2.72
BASECOMS 2	23	0	23	I			
SUP SVCS 2	2943	0	2943	63407	4.64	0.00	4.64

TABLE G.17. RESTRUCTURED DATA FOR ACTIVITY # 17

	RED RAT	DEFER	NDEFER (000)		CPV (000)	%DEF %	NDEF 7	TDEF /CPV
AVIATION	- 2-	<u>258</u>	 554	922	135111	0.19	0.49	0.68
FLT COMS	1	118	4	122	I			
PORT OPS	3	96	108	204	92338	0.10	0.12	0.22
SPEC OPS	i	23	5	28	4444	0.52	0.11	0.63
TRAINING	2	574	15	589	31155	1.84	0.05	1.89
ACFT MNT	2	3056	142	3178	266948	1.14	0.05	1.20
SHIP MNT	2	33	16	49	488	6.76	3.28	10.04
ELEX/LOG	2	10	0	10	2587	0.39	0.00	0.39
RDTE		94	16	110	23916	0.39	0.07	0.46
POL SVCS	1	25	25	50	25358	0.10	0.10	0.20
WEAPON SYS SVCS	1	285	7	292	18170	1.57	0.04	1.61
MED/DEN		70	14	84	5577	1.26	0.25	1.51
UPH/MESS	2	873	308	1181	66931	1.30	0.46	1.76
PERS SVC	2	1264	138	1402	I			
FAM HSE		NOT	LISTED) AIS				
UTILITY		30	281	311	6732	0.45	4.17	4.62
ADMIN	2	1445	353	1798	I			
PUB WRKS	2	1360	122	1482	42674	3.19	0.29	3.47
SECURITY	2	376	9	385	I			
FIRE PRO	Т 2	7	0	7	I			
BASE TRN		1365	2906	4271	106024	1.29	2.74	4.03
BASECOMS	2	34	17	53	I			
SUP SVCS	2	3367	384	3751	61965	5.43	0.62	6.05

TABLE G.18. RESTRUCTURED DATA FOR ACTIVITY # 18

	RED RAT		NDEFER (000)	TOTDEF (000)			NDEF 7	
AVIATION -	3	731	2879	3630	90172	0.81	3.21	4.03
FLT COMS	1	8	218	226	I			
PORT OPS _		0	0	O	0	ERR	ERR	ERR
SPEC OPS _		1	O	1	253	0.40	0.00	0.40
TRAINING	2	1422	513	1935	2447	58.11	20.96	79.08
ACFT MNT	1	2163	5840	8003	83474	2.59	7.00	9.59
SHIP MNT _		0	0	0	Ò	ERR	ERR	ERR
ELEX/LOG _		O	86	86	453	0.00	18.98	18.98
RDTE _		0	186	186	1794	0.00	10.37	10.37
FOL SVCS	2	346	70	416	8526	4.06	0.82	4.88
WEAPON SYS SVCS	2	287	200	487	5930	4.84	3.37	8.21
MED/DEN _		116	136	252	2570	4.51	5.29	9.81
UPH/MESS	3	3179	2225	5404	45019	7.06	4.94	12.00
PERS SVC	2	1202	4567	5769	I			
FAM HSE	2	тои	LISTED	AIS				
UTILITY	2	1654	1860	3514	83482	1.98	2.23	4.21
ADMIN	2	97	631	728	1			
PUB WRKS	2	582	13	595	12460	4.67	0.10	4.78
SECURITY	2	383	105	488	I			
FIRE PRO		15	83	98	I			
BASE TRN	2	1864	1364	3228	46087	4.04	2.96	7.00
BASECOMS _		0	0	0	1			
SUP SVCS	2	132	1127	1259	18090	0.73	6.23	6.96

TABLE G.19. RESTRUCTURED DATA FOR ACTIVITY # 19

	RED RAT	DEFER (000)	NDEFER (000)	TOTDEF (000)	CFV (000)		NDEF 7	
AVIATION	- 2-	 382	5761	6143	73194	0.52	7.87	8.39
FLT COMS	2	12	139	151	I			
PORT OPS		0	0	0	0	ERR	ERR	ERR
SPEC OPS		1	0	i	244	0.41	0.00	0.41
TRAINING	2	2037	1181	3218	37480	5.43	3.15	8.59
ACFT MNT	3	2037	3426	5463	81966	2.49	4.18	6.65
SHIP MNT		0	0	0	142	0.00	0.00	0.00
ELEX/LOG		0	0	0	240	0.00	0.00	0.00
RDTE		0	0	0	2885	0.00	0.00	0.00
FOL SVCS	2	340	45	385	8345	4.06	0.54	4.60
WEAPON SYS SVCS	2	242	226	468	5832	4.15	3.88	8.02
MED/DEN		91	2	93	2550	3.57	0.08	3.65
UPH/MESS	3	2726	2021	4747	44140	6.18	4.58	10.75
PERS SVC	2	929	1710	2639	I			
FAM HSE	2	ТОИ	LISTED	AIS				
UTILITIES	2	1210	1538	2748	79637	1.52	1.93	3.45
ADMIN	2	215	153	368	I			
PUB WRKS	2	466	95	561	12557	3.71	0.76	4.47
SECURITY	2	435	3	438	I			
FIRE PRO		56	0	56	I			
BASE TRN	2	1678	2916	4594	43183	3.89	6.75	10.64
BASECOMS		0	O	0	I			
SUP SVCS	2	1168	740	1908	19711	5.93	3.75	9.68

TABLE G.20. RESTRUCTURED DATA FOR ACTIVITY # 20

		(OOO)				INDEF %	
AVIATION -	2 70	2097	2167	74817	0.09	2.80	2.9
FLT COMS	1 7	0	7	I			
PORT OPS _	(0	0	0	ERR	ERR	ERR
SPEC OPS _	(0	0	241	0.00	0.00	0.00
TRAINING	1 201	. 333	534	36487	0.55	0.91	1.46
ACFT MNT	2 1523	1570	3093	79575	1.91	1.97	3.89
SHIP MNT _	(0	0	138	0.00	0.00	0.00
ELEX/LOG	1 19	54	73	231	8.23	23.38	31.60
RDTE _	(0	0	1597	0.00	0.00	0.00
FOL SVCS	2 213	40	253	27400	0.78	0.15	0.92
WEAPON SYS SVCS	2 40	119	159	5689	0.70	2.09	2.79
MED/DEN	2 91	. 2	93	2453	3.71	0.08	3.79
UPH/MESS	2 1489	1325	2814	42985	3.46	3.08	6.55
PERS SVC	2 1118	844	1962	I			
FAM HSE	1 NOT	LISTED	AIS				
UTILITIES	2 849	1714	2563	77203	1.10	2.22	3.32
ADMIN	2 228	114	340	I			
PUB WRKS	2 279	7 17	296	12294	2.27	0.14	2.41
SECURITY	2 11	165	176	I			
FIRE PROT	i 57	7 0	57	I			
BASE TRN	1 1465	1942	3407	42208	3.47	4.60	8.07
BASECOMS	2 - 5	5 0	5	I			
SUP SVCS	2 734	52	786	1227	59.82	4.24	64.06

TABLE G.21. RESTRUCTURED DATA FOR ACTIVITY # 21

	RED RAT	DEFER (000)	NDEFER (000)		CFV (000)		%NDEF :	
AVIATION	·	ō	<u>ō</u>	<u></u> 0	<u></u> 0	ERR	ERR	ERR
FLT COMS		1	0	1	I			
PORT OFS	3	13765	1655	15420	100577	13.69	1.65	15.33
SPEC OPS		232	90	322	11164	2.08	0.81	2.88
TRAINING .		273	249	522	12058	2.26	2.07	4.33
ACFT MNT		0	. 0	O	Q	ERR	ERR	ERR
SHIP MNT		0	Ô	0	0	ERR	ERR	ERR
ELEX/LOG		Q	O	0	0	ERR	. ERR	ERR
RDTE		233	2	235	16469	1.41	0.01	1.42
FOL SVCS		52	2048	2100	43538	0.12	4.70	4.82
WEAPON SYS SVCS	1	1	. 0	1	17	5.88	0.00	5.88
MED/DEN		36	75	111	1413	2.55	5.31	7.86
UPH/MESS		0	0	0	. 0	ERR	ERR	ERR
PERS SVC	2	591	419	1010	I			
FAM HSE		ИОТ	LISTED	AIS				
UTILITY _		ò	0	9	9497	0.09	0.00	0.09
ADMIN	2	826	1809	2635	I			
FUB WRKS	2	88	104	192	11225	0.78	0.93	1.71
SECURITY	2	95	60	155	I			
FIRE PROT	2	21	38	59	I			
BASE TRN		5133	4285	9418	62000	8.28	6.91	15.19
BASECOMS	2	0	0	0	I			
SUP SVCS	3	8755	14559	23314	349194	2.51	4.17	6.68

APPENDIX H

ANOVA TEST DATA BASE

This appendix contains the data used in the ANOVA, which are the results after the excluded mission categories discussed in Chapter IV and Appendix G were removed.

TABLE H.1. DATA SAMPLE # 1

	RED RAT			TOTDEF (000)			%NDEF /CPV	
SUP SVCS			0	<u>ō</u>	747	0.00	0.00	0.00
PUB WKS	1	600	2	602	6547	9.16	0.03	9.20
BASE TRN	1	0	114	114	13277	0.00	0.86	0.86
UTILITIE	5 2	601	3191	3972	26361	2.28	12.11	15.07
TRAINING	2	1779	1034	2813	65543	2.71	1.58	4.29
UPH/MESS	3/1	1250	24	1274	10463	11.95	0.23	12.18
POL SVCS		0	0	0	29	0.00	0.00	0.00
RDTE		0	0	0	219	0.00	0.00	0.00
ELEX/LOX		0	0	0	357	0.00	0.00	0.00
AVIATION		0	o	O	2369	0.00	0.00	0.00
SPECIAL		0	5	5	7822	0.00	0.06	0.06

TABLE H. 2. DATA SAMPLE # 2

	RED EAT	DEFER	NDEFER (000)	TOTDEF (000)	CPV (000)	%DEF /CPV	%NDEF /CPV	%TDEF /CPV
AVIATION	- 1	0			19	0.00	0.00	0.00
TRAINING	1	13	29	42	1197	1.09	2.42	3.51
UTILITIES	3 2	0	1	1	1243	0.00	0.08	0.08
PUB WRKS	2	42	2	44	3691	1.14	0.05	1.19
BASE TRN	2	629	145	774	4748	13.25	3.05	16.30
MED/DEN	2	1183	975	2158	91889	1.29	1.06	2.35
SUP SVCS	3	0	0	0	11	0.00	0.00	0.00
UPH/MESS	3	621	44	665	9835	6.31	0.45	6.76
SPECIAL		Ŏ	0	0	3	0.00	0.00	0.00

TABLE H.3. DATA SAMPLE # 3

	ED DEFER AT (000)	NDEFER (000)					
PUB WRKS	1 0	1		6413	0.00	0.02	0.02
SUP SVCS	2 0	0	0	548	0.00	0.00	0.00
BASE TRN	2 0	108	108	13015	0.00	0.83	0.83
UTILITIES :	2 99	1695	1794	29698	0.33	5.71	6.04
UPH/MESS 2	/1 1093	0	1093	10266	10.65	0.00	10.65
POL SVCS _	0	0	0	28	0.00	0.00	0.00
RDTE	0	0	0	214	0.00	0.00	0.00
ELEX/LOG _	0	1	1	349	0.00	0.29	0.29
AVIATION _	0	0	0	2322	0.00	0.00	0.00
SPECIAL _		i	1	9582	0.00	0.01	0.01
TRAINING _	618	1151	1769	63902	0.97	1.80	2.77

TABLE H.4. DATA SAMPLE # 4

REI RAI		NDEFER (000)	TOTDEF (000)	CFV (000)	%DEF /CPV	%NDEF /CFV	%TDEF /CPV
SUP SVCS 2				529	-0.00	0.00	0.00
PUB WRKS 2	0	1	1	2349	0.00	0.04	0.04
UPH/MESS 2	951	781	1732	9988	9.52	7.82	17.34
BASE TRN 2	0	100	100	12681	0.00	0.79	0.79
UTILITIES 2	99	1684	1783	24796	0.40	6.79	7.19
TRAINING 2	737	270	1007	64696	1.14	0.42	1.56
POL SVCS	. 0	0	0	56	0.00	0.00	0.00
AVIATION	_ 0	0	0	79	0.00	0.00	0.00
RDTE	_ 0	0	0	207	0.00	0.00	0.00
ELEX/LOG	_ 0	0	0	337	0.00	0.00	0.00
SPECIAL	_ 0	1	1	9220	0.00	0.01	0.01

TABLE H.S. DATA SAMPLE # 5

	RED RAT	DEFER (000)		TOTDEF (000)		%DEF /CPV	%NDEF /CPV	
SUP SVCS	2	35	1166	1201	6118	0.57	19.06	19.63
UPH/MESS	2	25	84	109	34684	0.07	0.24	0.31
PORT OFS	3	2	2857	2859	146711	0.00	1.95	1.95
AVIATION		O	0	0	95	0.00	0.00	0.00
RDTE		0	0	0	428	0.00	0.00	0.00
FOL SVCS		0	0	0	566	0.00	0.00	0.00
WEAPON		1	0	1	603	0.17	0.00	0.17
SPECIAL		6	12	18	1213	0.49	0.99	1.48
UTILITY		6	12	18	1890	0.32	0.63	0.95
ELEX/LOG		80	0	80	2655	3.01	0.00	3.01
PUB WRKS		3414	52	3466	2739	123.6	1.90	126.5
MED/DEN		0	10	0	10396	0.00	0.10	0.00
SHIP MNT		465	725	1190	11038	4.21	6.57	10.78
BASE TRN		3038	2696	5734	13298	22.85	20.27	43.12
TRAINING		479	305	784	43526	1.10	0.70	1.80

TABLE H.6. DATA SAMPLE # 6

					CPV (000)	%DEF /CPV	%NDEF /CPV	
BASE TRN		<u></u> 208	226	4 34	<u></u> 5130	3.39	3.69	7.08
UTILITIE	5 2	21	0	21	8835	0.24	0.00	0.24
SHIP MNT		0	0	0	25	0.00	0.00	0.00
WEAPON		14	3	17	270	5.19	1.11	6.30
SPECIAL		0	0	0	683	0.00	0.00	0.00
MED/DEN		19	0	19	794	2.39	0.00	2.39
RDTE		41	11	5 2	931	4.40	1.18	5.59
TRAINING		0	0	O	991	0.00	0.00	0.00
PUB WRKS		70	10	80	5941	1.18	0.17	1.35
FORT OPS		1417	3198	4617	47407	2.99	6.75	9.74
SUP SVCS		2998	591	3589	100413	2.99	0.59	3.57
POL SYCS		492	151	643	118874	0.41	0.13	0.54

TABLE H.7. DATA SAMPLE # 7

	RED RAT				CPV (000)	%DEF /CPV	%NDEF /CPV	
BASE TRN	-2-	362	56	418	5091	7.11	1.10	8.21
PORT OPS	2	692	4207	4899	46467	1.49	9.05	8.21
SUP SVCS	2	3012	996	4008	98400	3.06	1.01	4.07
SHIP MNT		0	0	0	24	0.00	0.00	0.00
WEAPON		2	5	7	266	0.75	1.88	2.63
SPECIAL		224	24	248	869	25.78	2.76	28.54
RDTE		20	15	35	911	2.20	1.65	3.84
TRAINING	Sacre Sacre Sacre	0	0	0	959	0.00	0.00	0.00
MED/DEN		17	7	24	979	1.74	0.72	2.45
PUB WRKS		55	45	100	5823	0.94	0.77	1.72
UTILITY		3	21	24	8566	0.04	0.25	0.28
POL SVCS		33	559	592	116241	0.03	0.48	0.51

TABLE H.8. DATA SAMPLE # 8

	RED RAT					%DEF /CPV		
RDTE		22	16	38	882	2.49	1.81	4.31
BASE TRN	2	795	8	803	5025	15.82	0.16	15.78
PORT OPS	2	477	4231	4 7 08	45238	1.05	9.35	10.41
SUP SVCS	2	1203	1275	2478	95656	1.26	1.33	2.59
SHIP MNT		4	1	5	24	16.67	4.17	20.83
WEAF'ON		1	2	3	257	0.39	0.78	1.17
SPECIAL		33	35	88	651	5.07	5.38	10.45
MED/DEN		15	4	19	759	1.98	0.53	2.50
TRAINING		0	0	0	936	0.00	0.00	0.00
PUB WRKS		55	40	95	5892	0.93	0.68	1.61
UTILITY		1	84	85	8154	0.01	1.03	1.04
POL SVCS		124	336	460	113217	0.11	0.30	0.41

TABLE H.9. DATA SAMPLE # 9

	RED RAT	DEFER (000)			CPV (000)		%NDEF /CPV	
MED/DEN		52		52	4510	1.15	0.00	1.15
PORT OPS	2	9	18	27	8037	0.11	0.22	0.34
FUB WRKS	2	96	192	288	8345	1.15	2.30	3,45
SUP SVCS UPH/MESS		131 217	79 1482	210 1699	10395 52357		0.76 2.83	2.02 3.25
SHIP MNT		20	0	20	30	66.67	0.00	66.67
SPECIAL		3	0	3	61	4.92	0.00	4.92
BASE TRN		0	0	Ō	5374	0.00	0.00	0.00
ELEX/LOG		20	445	465	13682	0.15	3.25	3.40
TRAINING		125	971	1096	58099	0.22	1.67	1.89
UTILITY		0	0	0	153210	0.00	0.00	0.00

TABLE H.10. DATA SAMPLE # 10

	RED RAT	DEFER			CFV (000)		NNDEF /CFV	
WEAPON	-	<u>-</u> 349	829	1178	4048	8.62	20.48	29.10
TRAINING	2	8138	366	8504	4244	191.8	8.82	200.4
PUB WRKS	2	866	21	887	4483	19.32	0.47	17.77
POL SVCS	2	52	500	552	9107	0.57	5.49	6.06
BASE TRN	2	822	141	963	28736	2.86	0.49	3.35
AVIATION	2	27188	3707	30895	155345	17.50	2.39	19.89
SUP SVCS	3	118	21	139	6009	1.96	0.35	2.31
UPH/MESS	3	1248	778	2026	48520	2.57	1.60	4.18
UTILITY	3	2534	1893	4427	53352	4.75	3.55	8.30
RDTE		o	0	0	156	0.00	0.00	0.00
FORT OFS		729	3	732	615	118.5	0.49	119.0
SPECIAL		81	0	81	1134	7.14	0.00	7.14
MED/DEN		Ŏ	Ō	Ō	4210	0.00	0.00	0.00
ACFT MNT	-	2005	996	3001	123064	1.63	0.81	2.44

TABLE H.11. DATA SAMPLE # 11

	RED RAT	DEFER	NDEFER (000)	TOTDEF (000)	CPV (000)		%NDEF /CFV	
WEAFON		778	491	1269	2967	26.22	16.55	42.77
TRAINING	2	596	303	899	4106	14.52	7.38	21.89
PUB WRKS	2	708	435	1143	4357	16.25	9.98	26.23
POL SVCS	2	42	172	214	8847	0.47	1.74	2.42
BASE TRN	2	1394	105	1499	27023	5.16	0.39	5.55
UPH/MESS	2	2234	425	2659	45654	4.89	0.93	5.82
ACFT MNT	2	3356	917	4273	119370	2.81	0.77	3.58
AVIATION	2	17929	9705	27634	148490	12.07	6.54	18.61
SUP SVCS	3	202	5	207	5829	3.47	0.09	3.55
UTILITIE	3 3	3464	476	3940	47757	7.25	1.00	8.25
RDTE		0	0	0	156	0.00	0.00	0.00
PORT OPS		79	o	79	594	13.30	0.00	13.30
SPECIAL		3	0	3	1104	0.27	0.00	0.27
MED/DEN		1	0	1	4101	0.02	0.00	0.02

TABLE H.12. DATA SAMPLE # 12

	RED RAT	DEFER (000)	NDEFER (000)		CPV (000)		%NDEF /CPV	
FUB WRKS	- 2-	495	4	499	7109	6.76	0.06	7.02
SUP SVCS	2	169	48	217	9184	1.84	0.52	2.36
BASE TRN	2	600	O	600	15955	3.76	0.00	3.76
TRAINING	3	2932	1032	3964	67155	4.37	1.54	5.90
UPH/MESS	3	891	5197	6088	131307	0.68	3.96	4.64
SPECIAL		0	0	0	121	0.00	0.00	0.00
RDTE		9	0	9	476	1.89	0.00	1.89
PORT OPS		178	Ō	178	856	20.79	0.00	20.79
UTILITY		27	1	28	3779	0.71	0.03	0.74
MED/DEN		225	14	239	4586	4.91	0.31	5.21

TABLE H.13. DATA SAMPLE # 13

	RED RAT	DEFER (000)			CPV (000)		%NDEF /CPV	
SUP SVCS	<u>-</u>	541	1274	1815	44743	1.21	2.85	4.06
WEAPON	2	55	60	116	3846	1.46	1.56	3.02
PUB WRKS	2	644	3	647	7256	8.88	0.04	8.92
POL SVCS	2	46	423	469	7726	0.60	5.48	6.07
AVIATION	2	5547	4432	11079	40060	16.59	11.06	27.66
PORT OPS	2	7375	484	7859	78803	9.36	0.61	9. 97
ACFT MNT	2	1557	44	1601	214130	0.73	0.02	0.75
UPH/MESS	3	729	2789	3518	110020	0.66	2.53	3.20
ELEX/LOG		5	0	5	599	0.83	0.00	0.83
SHIP MNT		119	422	541	1180	10.08	35.76	45.85
TRAINING		0	12	12	1662	0.00	0.72	0.72
SPECIAL		29	0	29	1985	1.46	0.00	1.46
MED/DEN		13	75	88	4445	0.29	1.69	1.98
UTILITY		9	O	9	5519	0.16	0.00	0.16

TABLE H.14. DATA SAMPLE # 14

	RED RAT	DEFER (000)	NDEFER (000)		CPV (000)		%NDEF /CPV	
POL SYCS		<u></u>	453	453	1361	-0.00	33.28	33.28
WEAFON	2	0	126	126	9653	0.00	1.31	1.31
AVIATION	2	2	13753	13755	39487	0.01	34.83	34.83
PORT OPS	2	2	7546	7548	65933	0.00	11.44	11.45
ACFT MNT	2	128	1041	1169	210867	0.06	0.49	0.55
SUP SVCS	3	. 46	2209	2255	43849	0.10	5.04	5.14
UPH/MESS	3	4	1961	1965	84757	0.00	2.31	2.32
ELEX/LOG		0	0	0	587	0.00	0.00	0.00
TRAINING		0	16	16	1625	0.00	0.98	0.98
MED/DEN	-	0	37	37	3457	0.00	1.07	1.07
SHIP MNT		1	323	324	4034	0.02	8.01	8.03
UTILITY		0	6	6	4769	0.00	0.13	0.13
SPECIAL		13	4	17	5825	0.22	0.07	0.29
PUB WRKS		3	31	34	7065	0.04	0.44	0.48
BASE TRN		8	1849	1857	53767	0.01	3.44	3.45

TABLE H.15. DATA SAMPLE # 15

	RED RAT	DEFER (000)	NDEFER (000)	TOTDEF (000)			%NDEF /CPV	
PUB WRKS		<u>-</u>	419	421	6840	0.03	6.13	6.15
POL SVCS	2	1	45	46	7374	0.01	0.61	0.62
WEAPON	2	70	527	597	9346	0.75	5.64	6.39
AVIATION	2	7498	8821	16319	37714	19.88	23.39	43.27
SUP SVCS	3	220	1900	2120	42629	0.52	4.46	4.97
PORT OPS	3	23	5754	5777	75243	0.03	7.65	7.68
UPH/MESS	3	33	1422	1455	105040	0.03	1.35	1.39
ACFT MNT	3	163	469	632	204420	0.08	0.23	0.31
ELEX/LOG		0	1	1	572	0.00	0.17	0.17
SPECIAL		28	2	30	1370	2.04	0.15	2.19
TRAINING		8	144	152	1567	0.51	9.19	9.70
MED/DEN		6	123	129	4240	0.14	2.90	3.04
UTILITY		0	5	5	6004	0.00	0.08	0.08
SHIP MNT		4	206	210	6829	0.06	3.02	3.08
BASE TRN		1877	648	2525	42113	4.46	1.54	6.00

TABLE H.16. DATA SAMPLE # 16

	RED RAT	DEFER (000)	NDEFER (000)		CPV (000)	%DEF /CFV	%NDEF /CPV	
WEAPON	-	<u>-</u> 227	<u>i</u> i	238	18555	1.22	0.06	1.28
POL SVCS	2	20	0	20	25009	0.08	0.00	0.08
PUB WRKS	2	1351	0	1351	43599	3.10	0.00	3.10
SUP SVCS	2	2943	0	2943	63407	4.64	0.00	4.54
UPH/MESS	2	672	364	1036	69465	0.97	0.52	1.49
PORT OPS	2	706	15300	16006	94237	0.75	16.24	16.98
AVIATION	2	862	758	1620	138376	0.62	0.55	1.17
ACFT MNT	2	2289	1188	3477	288696	0.79	0.41	1.20
SHIP MNT		86	0	86	498	17.27	0:00	17.27
ELEX/LOG		0	0	0	2642	0.00	0.00	0.00
SPECIAL		43	0	43	3185	1.35	0.00	1.35
MED/DEN		253	0	253	5692	4.44	0.00	4.44
UTILITY		231	299	530	6972	3.31	4.29	7.60
RDTE		109	0	109	26360	0.41	0.00	0.41
TRAINING		761	313	1074	40086	1.90	0.78	2.68
BASE TRN		2030	365	2395	87997	2.31	0.41	2.72

TABLE H.17. DATA SAMPLE # 17

	RED RAT	DEFER (000)	NDEFER (000)		CPV (000)	%DEF /CPV	%NDEF /CPV	%TDEF /CPV
SPECIAL	- 1	23	5	28	4444	0.52	0.11	0.63
WEAPON	1	285	7	292	18170	1.57	0.04	1.61
POL SVCS	1	25	25	50	25358	0.10	0.10	0.20
SHIP MNT	2	33	16	49	488	6.76	3.28	10.04
ELEX/LOG	2	10	0	10	2587	0.39	0.00	0.39
TRAINING	2	574	15	589	31155	1.84	0.05	1.89
PUB WRKS	2	1360	122	1482	42694	3.19	0.29	3.47
SUP SVCS	2	3367	384	3751	61965	5.43	0.62	6.05
UPH/MESS	2	873	308	1181	66931	1.30	0.46	1.76
AVIATION	2	258	664	922	135111	0.19	0.49	0.68
ACFT MNT	2	3056	142	3198	266948	1.14	0.05	1.20
PORT OPS	3	96	108	204	92338	0.10	0.12	0.22
MED/DEN		70	14	84	5577	1.26	0.25	1.51
UTILITY		30	281	311	6732	0.45	4.17	4.62
RDTE		94	16	110	21916	0.39	0.07	0.46
BASE TRN		1365	2906	4271	106024	1.29	2.74	4.03

TABLE H.18. DATA SAMPLE # 18

	RED RAT	DEFER (000)	NDEFER (000)	TOTDEF (000)			%NDEF /CPV	
ACFT MNT	- <u>i</u> -	<u>2163</u>	5840	8003	83474	2.59	7.00	9.59
TRAINING	2	1422	513	1935	2447	58.11	20.96	79.08
WEAPON	2	287	200	487	5930	4.84	3.37	8.21
POL SVCS	2	346	70	416	8526	4.06	0.82	4.88
PUB WRKS	2	582	13	595	12460	4.67	0.10	4.78
SUP SVCS	2	132	1127	1259	18090	0.73	6.23	6.96
BASE TRN	2	1864	1364	3228	46087	4.04	2.96	7.00
UTILITIE	S 2	1654	1860	3514	83482	1.98	2.23	4.21
UPH/MESS	3	3179	2225	5404	45019	7.06	4.94	12.00
AVIATION	3	731	2899	3630	90172	0.81	3.21	4.03
SPECIAL		1	0	1	253	0.40	0.00	0.40
ELEX/LOG		0	85	86	453	0.00	18.98	18.98
RDTE		0	186	186	1794	0.00	10.37	10.37
MED/DEN		116	136	252	2570	4.51	5.29	9.81

TABLE H.19. DATA SAMPLE # 19

	RED RAT	DEFER (000)	NDEFER (000)	TOTDEF (000)	CPV (000)	%DEF /CPV	%NDEF /CPV	%TDEF /CPV
WEAPON	- 2-	242	226	468	<u>5832</u>	4.15	3.88	8.02
POL SVCS	2	340	45	385	8365	4.06	0.54	4.60
PUB WRKS	2	466	95	561	12557	3.71	0.76	4.47
SUP SVCS	2	1168	740	1908	19711	5,93	3.75	9.68
TRAINING	2	2037	1181	3218	3 7 480	5.43	3.15	8.59
BASE TRN	2	1678	2916	4594	43183	3.89	6.75	10.64
AVIATION	2	382	5761	6143	73194	0.52	7.87	8.39
UTILITIES	6 2	1210	1538	2748	79637	1.52	1.93	3.45
UPH/MESS	3	2726	2021	4747	44140	6.18	4.58	10.75
ACFT MNT	3	2037	3426	5463	81766	2.49	4.18	6.66
SHIP MNT		0	0	0	142	0.00	0.00	0.00
ELEX/LOG		0	0	O	240	0.00	0.00	0.00
SPECIAL		1	0	1	244	0.41	0.00	0.41
MED/DEN		91	2	93	2550	3.57	0.08	3.65
RDTE		0	0	0	2885	0.00	0.00	0.00

TABLE H.20. DATA SAMPLE # 20

	RED RAT	DEFER	NDEFER (000)	TOTDEF (000)	CFV (000)	%DEF /CPV	%NDEF /CPV	%TDEF /CPV
ELEX/LOG	-	19	54	- 73	<u>231</u>	8.23	23.38	31.60
TRAINING	1	201	333	534	36487	0.55	23.38	31.60
BASE TRN	1	1465	1942	3407	42208	3.47	4.60	8.07
SUF SYCS	2	734	52	7 86	1227	59.82	4.24	64.06
MED/DEN	2	91	2	93	2453	3.71	0.02	3.79
WEAPON	2	40	119	159	5689	0.70	2.09	2.79
PUB WRKS	2	279	17	296	12294	2.27	0.14	2.41
POL SVCS	2	213	40	253	27400	0.78	0.15	0.92
UPH/MESS	2	1489	1325	2814	42985	3.46	3.08	6.55
AVIATION	2	70	2097	2167	74817	0.09	2.80	2.90
UTILITIE	S 2	849	1714	2563	77203	1.10	2.22	3.22
ACFT MNT	2	1523	1570	3093	79575	1.91	1.97	3.89
SHIP MNT		0	0	0	138	0.00	0.00	0.00
SPECIAL		0	O	Q	241	0.00	0.00	0.00
RDTE		0	0	0	1597	0.00	0.00	0.00

TABLE H.21. DATA SAMPLE # 21

	RED					%DEF /CPV		
WEAFON	1	1	0	1	17	5.88	0.00	5.88
PUB WRKS	2	88	104	192	11225	0.78	0.93	1.71
PORT OPS	3	13765	1655	15420	100577	13.69	1.65	15,33
SUP SVCS	3	8755	14559	23314	349194	2.51	4.17	6.68
MED/DEN		36	75	111	1413	2.55	5.31	7.86
UTILITY		9	0	9	9497	0.09	0.00	0.09
SPECIAL		232	90	322	11164	2.08	0.81	2.88
TRAINING		273	249	522	12058	2.26	2.07	4.33
RDTE		233	2	235	16469	1.41	0.01	1.43
FOL SVCS		52	2048	2100	43538	0.12	4.70	4.82
BASE TRN		5133	4285	9418	62000	8.28	6.91	15.19

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